# **Exhibit E**

Page 1 UNITED STATES DISTRICT COURT for the Eastern District of Pennsylvania JASON MARINO and JOY MARINO, et al, Plaintiffs V. CIVIL ACTION NO. 514cv046729(JLS) PILOT TRAVEL CENTERS, LLC, et al, Defendants VIDEOTAPE DEPOSITION OF DR. ERIC BROWN **APPEARANCES:** VILLARI, LENTZ & LYNAM, LLC. Attorneys for the Plaintiffs 1600 Market Street, Suite 1800 Philadelphia, Pennsylvania 19103 (215)568-1900THOMAS A. LYNAM, III, ESQ. POST & SCHELL Attorneys for Sovereign Consulting, Inc. Four Penn Center 1600 John F. Kennedy Boulevard Philadelphia, Pennsylvania 19103-2808 (215)587-1155PATRICK C. LAMB, ESQ. BY: LEWIS, BRISBOIS, BISGAARD & SMITH Attorneys for Pilot Travel Centers 550 East Swedesford Road, Suite 270 Wayne, Pennsylvania 19097 BY: THOMAS HARRINGTON, ESQ. REPORTED BY: ROBERT MILLER Licensed Shorthand Reporter License #10



	Page 2		Page 4
	Page 2		Page 4
1	Deposition of Dr. Eric Brown being	1	Pilot Travel Centers.
2	of lawful age, held pursuant to the Rules of Civil	2	THE VIDEOGRAPHER: Will the court
3	Procedure before Robert Miller, a duly qualified	3	reporter please swear in the witness?
4	Notary Public, within and for the State of	4	
5	Connecticut, held at the Hyatt Regency Hotel,	5	
6	Greenwich, Connecticut on August 27, 2015 at 10:14	6	
7	a.m.	7	
8	STIPULATIONS	8	
9		9.	
10	IT IS HEREBY stipulated and agreed by and	10	
11	among counsel for the respective parties that all	11	
12	formalities in connection with the taking of this	12	
13	deposition including time, place sufficiency of notice	13	
14	and the authority of the officer before whom it is	14	
15	being taken may be and are hereby waived.	15	
16	IT IS further stipulated and agreed that	16	
17	objections other than as to form are reserved to the	17	
I	<u>-</u>	18	
18	time of trial.	19	
19	IT IS further stipulated that the proof of		
20	the qualifications of the Notary Public before whom	20	
21	the deposition is being taken is hereby waived.	21	
22	IT IS further stipulated and agreed that	22	
23	the reading and signing of said deposition by the	23	
24	witness is hereby waived.	24	
25		25	
	Page 3		Page 5
1	THE VIDEOGRAPHER: We are now on the	1	DR. ERIC BROWN,
2	record. This is beginning of DVD number	2	called as a witness, having first been
3	one in the deposition of Dr. Brown in the	3	duly sworn to tell the truth, the whole truth and
4	matter of Marino versus Pilot Travel	4	nothing but the truth, testified as follows:
5	Centers, LLC and Sovereign Consulting, Inc.	5	THE NOTARY: Please state
6	in the United States District Court for the	6	your full name and address for the
7	Eastern District of Pennsylvania, Case	7	record.
8	Number 514 C.V. 04672 JLS.	8	THE WITNESS: Eric Brown,
9	Today is Thursday, August 27, 2015	9	Stamford Nephrology, 30 Commerce
10	and the time is 10:14 a.m.	10	Street, Stamford, Connecticut
11	This deposition is being taken at	11	06902.
12	the Hyatt Regency Hotel, Greenwich,	12	
13	Connecticut at the request of Post &	13	DIRECT EXAMINATION BY MR. LAMB:
14	Schell, P.C.	14	Q Doctor Brown, good morning. My name is
15	The videographer is Chris Johnson of	15	Patrick Lamb. I represent Pilot Travel Centers I
16	Magna Legal Services and the court reporter	16	mean Sovereign Consulting. I represent Sovereign
17	is Robert Miller of Magna Legal Services.	17	Environmental Consulting. I am going to take your
18	Will counsel and all parties present	18	deposition today.
19	state their appearances and whom they	19	We spoke briefly before the deposition
20	represent?	20	about some protocols and stuff like that. You waived
21	MR. LYNAM: Tom Lynam for the	21	reading and signing the deposition, as I understand
22	plaintiffs.	22	it, correct?
23	MR. LAMB: Patrick Lamb for	23	A Yes.
24	<u> </u>	24	
	Sovereign.  MP. HAPPINGTON: Tom Harrington for	25	Q And you have indicated you're ready to
25	MR. HARRINGTON: Tom Harrington for	45	testify this morning, correct?



	Page 6		Page 8
1	A Yes.	1	Q So, in looking at this report. I have some
2	Q If at any time we are in a kind of an	2	questions for you about the report. What did you
3	executive suite in the hotel room. If you're	3	review to write this report? What records?
4	distracted by anything, please tell me and I will be	4	A So I reviewed some reports and I have
5	happy to rephrase or restate any question. Okay?	5	listed them. I reviewed the materials and engineering
6	A I will. Thank you.	6	group report which was sort of a forensic report about
7	Q We are here in Stamford, Connecticut which	7	Mr. Marino's clothing.
8	is the location of your offices, correct?	8	I reviewed some pathology reports by Doctor
9	A Yes.	9	Robert Coven and the Columbia pathology report which
10	Q You're at 30 Commerce Road?	10	is the original pathology report. The report prepared
11	A Yes.	11	by Dr. Neil Jenkins, depositions of the Marino family,
12	Q Pretty close to here?	12	basically.
13	A Yes.	13	And then the medical records I had
14	Q Just a couple of things regarding your	14	available were some outpatient records from Mr.
15	curriculum vitae. You are a nephrologist, am I	15	Marino's primary care doctor, his dialysis records,
16	correct?	16	there's an access center where he had some work done
$\begin{bmatrix} 10 \\ 17 \end{bmatrix}$	A Yes.	17	there, then St. Luke's Hospital, Allentown which was
18	Q What are you board certified in?	18	the admission during which he started dialysis and had
19	A Internal medicine and nephrology.	19	a renal biopsy.
20	Q How long have you been board certified in	20	Q So, your opinions start, I believe, on the
21	nephrology?	21	second paragraph of page two, correct?
22	A Since probably around 1990.	22	A Yes.
23	Q You went to Columbia undergraduate and	23	Q Then you say based upon my review of these
24	Emory for medical school?	24	records I've reached the following conclusions. You
25	A Yes.	25	say first, then you list your conclusions, right?
1	Page 7		Page 9
1	Page 7	1	Page 9
1 2	Q What was your residency in?	1	A Yes.
2	Q What was your residency in? A Internal medicine.	2	A Yes. Q It is a pretty long paragraph. We will
2 3	<ul><li>Q What was your residency in?</li><li>A Internal medicine.</li><li>Q Did you do a fellowship after that?</li></ul>	2 3	A Yes.  Q It is a pretty long paragraph. We will pare through that in a second. But did you rely upon
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	Page 10		Page 12
1	All these pathology reports contain a	1	Q And they are kind of independent bodies?
2	disclaimer, "clinical correlation as necessary".	2	A Yes.
3	So, as a clinical nephrologist looking at	3	Q You can nod your head, but make sure you
4	the report, and knowing his clinical story, if someone	4	say yes.
5	was fine and then got sick after exposure to an	5	A All right.
6	nephrotoxin and actually looking for signs of an acute	6	Q And the interstitium is kind of the ground
7	injury, you can see the clinical information that the	7	between, I imagine them almost as trees and the
8	pathologist has has unexplained renal insufficiency,	8	bushes, and the ground between the tubules and the
9	then smallish kidneys, and then toxic exposure versus	9.	glomeruli is the interstitium, right?
10	undiagnosed chronic kidney disease.	10	A Yes.
11	So, it doesn't really have as much clinical	11	Q And we showed extensive scarring to the
12	history as I have from looking at the clinical	12	interstitium, correct?
13	records. So, I am looking at this trying to put the	13	A Yes.
14	whole story together, a large part of which is the	14	Q What percentage of the glomeruli had been
15	biopsy finding. So, that proximal tubule display,	15	sclerosed or compromised to the point that they
16	focal loss of apical brush border says to me that	16	weren't functioning?
17	there's an acute injury. So, I just found it	17	A The glomeruli was probably
18	validating that Dr. Coven said the same thing or	18	Q I thought it was 75 percent. I could be
19	interpreted it in the same way.	19	wrong.
20	Q Biologically, why is the focal loss of the	20	A The number I have in my mind is 75 percent
21	brush border not just an incidental finding to your	21	of both. I think I can answer your question.
22	opinion?	22	Q Don't get ahead of me here. So the
23	A I am almost embarrassed to answer it this	23	glomeruli, 75 percent of those are what they call
24	way, because I have been taught that the signs of	24	sclerosed or basically, out of commission, right?
25	acute tubule injury can be subtle and this is what	25	A Yes.
	Page 11		Page 13
1	they are.	1	Q So, if we look at Mr. Marino's kidney, we
2	Q I just want to go through the medicine with	2	are saying the glomeruli that filter the blood, three
3	you for a second.	3	quarters of those as of the date of the accident are
4	A Okay.	4	gone?
5	Q There was extensive scarring to the	5	A Yes.
6	glomeruli, right?	6	Q The tubules, I thought it was in the
7	A Yes.	7	sixties in terms of the percentage of those that had
8	Q And there was extensive scarring to the	8	been, basically, rendered inactive, am I right?
9	interstitium.	9	A Let me look at that.
10	A Yes.	10	Q I don't want to misquote the report.
11	Q So, we have extensive scarring to the	11	A Right. I just want to be precise about
12	glomeruli which are the filters in the kidney that	12	that too. 75 percent of both.
13	filter the blood, right?	13	Q So, on May 5th Mr. Marino had a kidney that
14	A Uh-hum.	14	at best had 25 percent of its tissue still viable?
15	Q You have the answer yes or no?	15	A Yes.
16	A I'm sorry, yes.	16	Q And we know that those changes, those
17	Q Then we have extensive scarring to kind of	17	75 percent changes were due to some type of chronic
18	tissue between the glomeruli?	18	disease?
19	A Yes.	19	A Yes.
20	Q And between the tubules?	20	Q But here is the problem, right, no one
21	A Yes.	21	knows what that chronic disease was?
22	Q So, if we look at a kidney and we look	22	A Right.
23	inside, we would have these glomeruli, we have these	23	Q In other words, all the testing, all the
24	tuhulas right?	· / //	
24 25	tubules, right? A Yes.	24 25	medical treatment he's gotten, no one has been able to figure out why Mr. Marino had chronic kidney disease?



Page 14

A Yes.

- Q And by chronic, we mean over years. And I don't think by your report, you don't disagree that he's had changes to his kidneys that have been ongoing for some time before he was at the Pilot Travel Center?
  - A Oh, I think it was since childhood.
- Q Okay. So, if we don't know what is causing the chronic changes and you are going to come in here and say well, I see some acute changes -- let's for a hypothetical, let me agree with you that there may be some acute changes, how can you determine that the acute changes aren't due to what is causing the chronic changes?

A So, what you have with the kidney biopsy is you're looking at a cross-section of the kidneys. You can't necessarily say which tubule is attached to which glomeruli. I mean you can to some extent, but not really. You have about million of the glomeruli in each kidney. And when you lose 75 percent of them you lose 75 percent of them. You have 25 percent remaining. Those 25 percent have a glomerulus. And they are attached to a proximal tubule and that tubule is attached to a distal tubule and that produces urine. That should be relatively intact. That is the

Page 16

Let me start with the first one. You said the proximal tubules to your mind should acute injury. You immediately told me due to a nephrotoxin. But it is true, isn't it, that looking at the pathology one cannot differentiate the cause of the tubular injury that's seen on the biopsy. In other words, it didn't have to be a nephrotoxin, it could have been another cause?

A Well, I mean a nephrotoxin is something that injures by definition, that's what a nephrotoxin does. Your point is correct. This is where the whole clinical correlation takes place. No pathologist can tell you exactly what it is without the clinical information.

Q For instance, if a patient had felt they had the flu and had a couple of weeks before the biopsy. And then they took a lot of Advil or Ibuprofen thinking that would make them feel better. I don't want to use the term overdose, but they had too much, that could cause injury to the proximal tubule that would show up as an acute injury?

A There is subtleties to it that a pathologist should answer when they can say it was a chemical nephrotoxin as opposed to ischemia which is really what I would struggle to do. I shouldn't

Page 15

way the disease works.

If you lose some of them and the remaining ones are working and in fact, they are overworking, which is why we as nephrologists think we can prevent kidney disease from progressing. Because when you have few remaining filters, the remaining ones are working harder and they are in effect worn out, to put it in a simplistic way.

Those tubules should be normal actually, those proximal tubules. The thing that damages proximal tubules is some kind of insult like a nephrotoxic insult.

And this kind of damage reflects an acute injury. This isn't glomerular disease that's attacking the proximal tubule, it's not an interstitial disease that's attacking the proximal tubule. The proximal tubule is a very metabolically active part of the kidney that is just very sensitive to any sort of nephrotoxic injury. So, it is really renal pathologists who are experts in this sort of thing. But as a clinician, I understand it. And this is the mechanism. And this is why this says to me second acute injury. It's just a different disease process completely.

Q Okay. I have two questions about that.

Page 17

answer that. I would be a hypocritical correlation -you are asking more detail than a clinical nephrologist would know.

Q But in the Columbia pathology report there was no differentiation on those brush borders in the tubules as to what could have caused it. In other words, there was not enough information in the Columbia pathology report to say whether it was due to ischemia or due to a nephrotoxin, right?

A That is really a question for a pathologist because there are subtleties to that, where they will say it looks more nephrotoxic than ischemic. I am not trying to dodge the question, it is just out of my area of expertise. But, yes, there's not enough information for the Columbia pathologist to say what it was.

Q Let me go back to that question and answer. My question is, would you agree that there is not enough information in the Columbia pathology report for you as a pathologist to determine whether the injury to the proximal tubule was ischemic or was due to a nephrotoxin or was due to some other cause?

A Correct.

Q Did you review any literature concerning the effects of diesel fuel on a kidney or anything



1 2 3 4	Page 18		Page 20
3	like that?	1	A I don't actually.
I .	A I did, yes.	2	Q Did you ever when you were a kid?
4	Q Which articles did you review?	3	A Yes.
	A Unfortunately, I didn't print them. I have	4	Q Did you ever have to fill up the gas tank
5	them. I can provide the names of all of them to you,	5	on your mower?
6	but it was a series of clinical case reports. It was	6	A Yes.
7	a series from Temple. There was a study that showed		Q And did you ever spill some?
8	some hydrocarbon exposure as an accelerator.	8	A Yes.
9	Q You don't remember the literature you	9.	Q On your hands?
10	looked at necessarily right now?	10	A Yes.
11	A The papers I remember the content but	11	Q And it's tough to get off, right?
12	not the titles.	12	A Yes.
13	Q Which case studies did you look at? I	13	Q In other words, the literature that is out
14	think we know them a little too well right now	14	there, what we have, it appears we have a 1964 article
15	including myself. So, which ones do you remember	15	and then we have a couple of articles from the early
16	looking at?	16	'80s, I believe, and then a couple of the case studies
17	A Probably the same ones you've seen.	17	from the late '90s. Do you recall that?
18	Q Which ones were there?	18	A Yes.
19	A There is an older series from Temple.	19	Q So would you agree there's a real absence
20	Q You say Temple, do you mean Temple	20	of literature about the effects of diesel fuel on the
21	University in Philadelphia?	21	kidneys given the prevalence of diesel fuel in our
22	A Yes.	22	
23		23	society?
24	Q I think I did print that one out.	23 24	MR. LYNAM: Objection to the form. THE WITNESS: No. I think it is
25	A Acute renal failure due to nephrotoxins.	25	
	Q Could I see that one?	20	well-established that diesel fuel is a
	Page 19		Page 21
1	MR. LYNAM: That's the very old one?	1	nephrotoxin. I don't feel like there's
2	THE WITNESS: That's the older one.	2	something missing from the literature.
3	BY MR. LAMB:	3	BY MR. LAMB:
4	Q This was Reidenberg, right?	4	Q Okay. That was a different answer than I
5	A Yes. There was a letter to the editor from	5	asked the question. My question was, you're right
6	Lancet that referenced this paper and reported that	6	here on I-95 just past Stamford.
7	case. The first English case. There was the man who	7	A Yes.
8	washed his hair with diesel fuel. The sailor who	8	Q And I am sure that there's probably five or
9	drowned and was rescued, that case as well.	9	six gas stations in Stamford that probably sell diesel
10	Q But this paper, the Reidenberg paper,	10	fuel for the truck drivers that pass through here?
	entitled Acute Renal Failure Due to Nephrotoxins is	11	A Yes.
11	from 1964 and appears to be a case study of three	12	Q So given the prevalence of diesel fuel in
11 12		1 ^	
11 12 13	cases, right?	13	our society, it is a chemical that's widely available,
11 12 13 14	A Yes.	14	our society, it is a chemical that's widely available, don't you think that only having four case studies,
11 12 13 14 15	A Yes. Q It's not a controlled study of a large	14 15	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of
11 12 13 14 15 16	A Yes.  Q It's not a controlled study of a large group of people?	14 15 16	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel
11 12 13 14 15 16 17	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give	14 15 16 17	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?
11 12 13 14 15 16 17 18	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens.	14 15 16 17 18	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form.
11 12 13 14 15 16 17 18 19	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens. Q You know, other doctors have said that. It	14 15 16 17 18 19	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form. You are mistaking the facts. You are
11 12 13 14 15 16 17 18 19 20	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens. Q You know, other doctors have said that. It is true, isn't it that people work with diesel fuel	14 15 16 17 18 19 20	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form.  You are mistaking the facts. You are leaving out the studies with hundreds of
11 12 13 14 15 16 17 18 19 20 21	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens. Q You know, other doctors have said that. It is true, isn't it that people work with diesel fuel everyday, in refineries, gas stations and repair shops	14 15 16 17 18 19 20 21	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form.  You are mistaking the facts. You are leaving out the studies with hundreds of people. You're misstating the literature.
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11 12 13 14 15 16 17 18 19 20 21 22 23	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens. Q You know, other doctors have said that. It is true, isn't it that people work with diesel fuel everyday, in refineries, gas stations and repair shops and they are exposed to it everyday, right? A I imagine they are not exposed in this way.	14 15 16 17 18 19 20 21 22 23	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form. You are mistaking the facts. You are leaving out the studies with hundreds of people. You're misstating the literature.  Instead of you summarizing a body of literature, you can give the doctor an
11 12 13 14 15 16 17 18 19 20 21 22	A Yes. Q It's not a controlled study of a large group of people? A No. Nor would there be, obviously, to give people diesel fuel and see what happens. Q You know, other doctors have said that. It is true, isn't it that people work with diesel fuel everyday, in refineries, gas stations and repair shops and they are exposed to it everyday, right?	14 15 16 17 18 19 20 21 22	our society, it is a chemical that's widely available, don't you think that only having four case studies, say, since 1975 indicates that there's a absence of evidence in the literature for a link between diesel fuel and long-term kidney damage?  MR. LYNAM: I object to the form. You are mistaking the facts. You are leaving out the studies with hundreds of people. You're misstating the literature.  Instead of you summarizing a body of



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		1490 22		
	1	cursory summary of a 50 year body of	1	isn't
	2	medical literature.	2	awai
	3	MR. LAMB: Tom, I can ask him the	3	expo
	4	question, he can answer the question. It	4	kidn
	5	is a discovery deposition.	5	I me
	6	BY MR. LAMB:	6	to th
	7	Q Could you answer the question please?	7	
	8	A If you could repeat it. Sorry.	8	of a
	9	Q Given the prevalence of diesel fuel in our	9	cells
	10	society, don't you think that having only four case	10	essei
	11	reports since 1975 in the literature indicates that	11	essei
	12	there's an absence of information regarding the effect	12	near
	13	of diesel fuel on chronic kidney disease or long-term	13	
	14	kidney disease?	14	prob
	15	MR. LYNAM: Objection to the form,	15	after
	16	misstates the facts.	16	kidn
	17	BY MR. LAMB:	17	flu a
	18	Q I am talking about the four case studies	18	peop
	19	not the other study done in France.	19	clini
	20	MR. LYNAM: Objection to the form.	20	like '
	21	Go ahead.	21	
	22	THE WITNESS: No, I think there's	22	func
	23	good literature that diesel fuel is a	23	and :
	24	nephrotoxin. I don't think it is in	24	If the
	25	someone who spills gas on their hands, but	25	abou
_		Page 23	ļu.	
		~ [		
	1	I think there's plenty of evidence that	1	
	2	someone who has a significant exposure can	2	seve
	3	have kidney damage.	3	up o
	4	BY MR. LAMB:	4	peop
	5	Q Now, when you read those case studies, it	5	are t
	6	indicated to you unless I am wrong, I imagine, that	6	
	7	the damage from diesel is typically damage to the	7	scen
	8	tubules?	8	expo
	9	A Yes.	9	almo
	10	Q And that damage causes sclerosis of the	10	twic
	11	tubules or was there some other	11	
	12	A It is just injury to the tubule cells.	12	doct
	13	Q Right. Did you also agree that the case	13	4 we
	14	studies indicate that the damage to the tubules	14	expo
	15	reverses itself?	15	
	16	A Yes.	16	wou
	17	Q And that typically individuals like the	17	ques
	18	individual who's in the seawater in the Lee article	18	of m
	19	and who ingested diesel as well as had dermal exposure	19	
	20	or inhalation exposure, that his kidneys rebounded	20	of m
	21	after a week or two or some specified amount of time?	21	than
	22	A That would be very typical. That is the	22	at a
	23	more typical course of exposure to nephrotoxin, that	23	kidn
	23 24 25	is someone would recover.  Q Okay. When you say it is the more typical,	23 24 25	take the t

isn't that the only course that nephrologists are aware of? In other words, if there's diesel fuel exposure, there is damage to the tubules and the kidneys rebound back after a certain period of time? I mean there are no case studies that show that damage to the tubules continues into the future, right?

A Not that I saw. But no, the nature of sort of a nephrotoxic kidney injury is that the tubule cells will be damaged and we used to say that essentially everybody recovers. So, when I say essentially, 80-90 percent people will recover back to near normal renal function.

The current thinking is that that is probably not the case, the kidney are not the same after someone has a sort of what's called an acute kidney injury, which could be from a nephrotoxin or flu and non-steroidal scenario you described. But people may or may not recover completely. But clinically significant kidney damage after something like this is unusual.

You would have people with normal kidney function who take a hit and get acute kidney injury and should recover back to baseline. Almost always. If they don't, then you probably thought incorrectly about what mechanism of their kidney injury was.

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And then you have people who have really a severe nephrotoxic injury who won't recover. Will end up on dialysis and stay on dialysis. Then you have people with chronic kidney disease with exposure who are tipped over, which is the case here.

All of those are relatively typical scenarios. With someone with normal kidney function exposed to a nephrotoxin even to the point where they almost need dialysis or may need dialysis once or twice will recover pretty good function again.

Q Is there any literature that -- where the doctors did a biopsy of the individual three or 4 weeks or any amount of time greater than that after exposure to diesel fuel?

A Some of the papers had biopsies. And I would have to relook at them with that specific question in mind. I couldn't answer that off the top of my head.

Q Is there any cohort study or advance study of more than -- a case study of more than one person than where nephrologists or pathologists have looked at a biopsy of an individual exposed to diesel who had kidney effects and they have looked at the biopsy taken six months later to determine if the injury to the tubules had reversed itself? You see what I am

Page 26 Page 28 1 would need to do because clinical measures of kidney saying? 2 function are insensitive to small changes in kidney A Right. You wouldn't do that in clinical practice. Where you might do that is if someone has 3 function. So you could take -- let's say, everybody who is exposed to diesel fuel for X amount of time an episode of acute kidney injury and then gets 4 protein in the urine, gets a second kidney disease 5 loses ten percent of kidney function. And obviously, 6 I am not saying that happens, I'm saying down the road and then you might do a biopsy. And you 7 hypothetically that could. Standard clinical measures sort of would be coincidental. But you wouldn't do a biopsy on someone that's clinically recovered. What 8 of kidney function are insensitive if someone starts 9 you would look at is their kidney function and you with normal kidney function. So, to prove they have would expect it to be back to normal. 10 long-term damage, you would have to do a kidney biopsy 11 O Right. And we agree on that. Exposure to down the road. 12 Q The reason you would have to do that is a nephrotoxin like diesel that can cause tubular injury would in almost, you said 90 percent of the 13 because of the nature of the kidney that even when the 14 kidney has limited function left, even when only a cases result in return to normal function of the 15 percentage of the kidney is still viable, the lab work kidney, right? 16 from that kidney, urine studies, and blood studies A In a healthy person, yes. 17 could still show a "healthy kidney", right? Q In a healthy person. Let's talking about 18 any person, even someone with chronic kidney disease. In other words, the kidney can trick the What I am asking is, the real focus of a study that 19 lab work because it works overtime to compensate for 20 the portions of the kidney that sclerosed or die? could determine if diesel fuel caused more than 21 A With normal kidney function. transient effects to the kidney would be for a 22 scientist to get a bunch of people who were exposed to O Sure. 23 diesel fuel whether they had chronic kidney disease or A It's particularly insensitive if kidney were of normal health and take a biopsy six months 24 function is normal. 25 after the exposure to determine if the tubules Q And just so we are clear, you are not aware Page 27 1 actually did rebound fully or if there was permanent of any studies of the ones we talked about where 2 damage, right? That is what you would really want to someone actually did a biopsy six months out from the 3 see, if you really wanted to know the answer? toxic exposure to determine if the injury or insult A Yes. Right. To sort of ask the abstract 4 from the exposure to diesel was longstanding or just question and answer it that way. You would do serial 5 transient, right? 6 A You are talking specifically about diesel? biopsies. 7 Q Right. I understand that clinically that Q Yes. 8 may not be called for, but there's a lot of research A I am not. 9 that takes place that might not necessarily follow Q Are you aware of that for any of the clinical rules or clinical processes, right? 10 components of diesel? 11 A Right. A For other hydrocarbons? Q If you really want to know, if you really 12 Q Right. wanted to say to yourself, hey listen, there's a bunch 13 A I just don't know. That wouldn't be of people out there who have exposure to diesel. We 14 something I would know. I just wouldn't know. know or at least we think based on case studies and 15 Q So, when you opined that Mr. Marino had a some other things that diesel is a nephrotoxin that 16 diesel exposure at the end of March 2014 and that that 17 could cause a kidney injury to the tubules. You're caused acute changes in his kidney and that five with me so far? You agree with all that? 18 months -- I am sorry, approximately five weeks later 19 A Yes. you're still seeing acute changes to the tubules, when Q But if you wanted to determine if those 20 you link that to the diesel exposure, you are not damages from the diesel were long-term, you would have 21 relying on a case study or literature or anything like to take a biopsy 3, 4, 5, 6 months out from the date 22 that, that is just your opinion based upon the

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clinical record and the pathology?

A And a knowledge of clinical pathology, yes.

Q All right. What damage to Mr. Marino's

of exposure and then eliminate any other causes for

A That would be the scientific study you

ongoing damage to the tubules, right?

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#### Page 30 Page 32 1 1 kidneys made him stop working? Was it damage to the A Yes. And that is what tipped him over. 2 2 Q So, you're calling the nephrons are the glomeruli, damage to interstitium, the damage to the 3 3 tubules, what made him stop working? combination of the glomeruli and tubules? 4 4 A You mean the chronic disease --A Yes. 5 Q The unit that was there? 5 Q No. No. When he presented St. Luke's 6 Hospital, I believe it was May 1, 2014 -- let me start 6 A Yes. He didn't get a separate glomerular 7 7 disease. He didn't get a separate interstitial again. 8 8 disease. It wasn't a new mechanism of any sort, it When we presented to St. Luke's Hospital to 9 9 was a nephrotoxic injury. the emergency department in May 2014, what part of his 10 10 kidney brought him there? In other words, was it Q I don't think anyone eliminated FSGS, 11 glomeruli damage, was it damage to the tubules, was it 11 right? damage to the interstitium? What was it that made his 12 A Well, he probably had FSGS. There's 12 13 13 kidney stop working? primary FSGS and secondary FSGS. I don't think he had 14 14 primary FSGS because again we are dealing with A The most likely mechanism was some underlying disease and we don't know what that was. 15 15 reasonable medical certainty and this looks more like 16 Whether that was primarily glomerular or primary 16 a disease that developed in childhood and slowly 17 progressed. Primary FSGS wouldn't typically do that. 17 tubular so that he was left with advanced primary 18 18 Secondary FSGS, however, would be a kidney disease. 19 19 What, in my opinion tipped him over was response to whatever he had. So, he probably did have 20 20 then exposure to a nephrotoxin which would have secondary FSGS. 21 21 knocked out the remaining filters in effect. Q Is it your testimony that he had this, 22 22 Q I understand that is your opinion. I am whatever this process was that was causing the damage 23 23 to his kidneys, he had it since he was a child, since not trying to interrupt you. If I do interrupt you, 24 he was born? 24 please tell me. I get a little impatient sometimes 25 with my questions. I don't want you to think that. 25 A That is my bet, yes. Page 31 Page 33 1 Poor Mr. Miller here thinks I am talking a little 1 Q And that it progressed over the course of 2 2 his life? fast. 3 3 MR. LYNAM: You only talk fast when 4 you don't like the answer. You want to 4 Q Would you agree that he was going to lose 5 interrupt him. 5 function in his kidneys at some point in life? 6 MR. LAMB: You're catching on to me. 6 A Yes. 7 7 BY MR. LAMB: Q No matter what happened? 8 8 Q I get excited. I get juiced up by the A Yes. 9 9 medicine a little bit. But my question is more Q Would you agree that during the course --10 10 specific than that. I think 30 years before he got to the Pilot Travel 11 Looking at the component parts of Mr. 11 Center that he probably was exposed to other 12 12 Marino's kidney, what part of his kidney failed that nephrotoxins? 13 stopped the kidneys from working? Was it damage to 13 A To what degree, I don't know. But sure, he 14 14 the glomeruli -- I am sorry. Was it the loss to the probably took an occasional Advil. He was probably 15 15 glomeruli? Was it the loss to the tubules? Was it around other things as well I'm sure. 16 16 the interstitial disease? What was it? Q Well, we know from his testimony, I think 17 A I think it is easier to think of just the 17 you read his testimony that certain of the machines he 18 18 glomeruli and tubules was the nephrons. It was loss used were powered by diesel fuel? 19 of the remaining nephrons. And it was loss of the 19 20 20 Q He, obviously, pumped his own gas on remaining nephrons that he couldn't filter enough 21 toxins. So my belief would be that he had few 21 occasion? 22 22 remaining nephrons, far fewer than a normal person A Yes. 23 would have. And the remaining ones had this ATN or 23 O He cut his own lawn? 24 24 nephrotoxic ATNs. A Yes. 25 25 Q ATN necrosis? Q He used certain adhesives, I think in his

	Page 34		Page 36
1	plumbing business that were indicated as being toxic?	1	talked about or far away from it, right?
2	MR, LYNAM: Objection to the form.	2	A No, I think we know. I think we know that
3	Misstates the facts. There's no evidence	3	he probably had about a third of his functional kidney
4	of that.	4	left.
5	MR. LAMB: I think we have the MSDS	5	Q Why do we know that? Why do you say that?
6	sheets.	6	A From the scarring on the kidney biopsy,
7	MR. LYNAM: We do.	7	that didn't develop over six weeks. So, I think he
8	BY MR, LAMB:	8	probably had stage 3, 4 chronic kidney disease when he
9	Q Do you whether he used certain adhesives or	9.	walked in the door, six weeks before he came to the
10	anything in his plumbing work that were nephrotoxins	10	hospital.
11	or could be considered toxic?	11	Q Maybe that's what I don't understand. How
12	A I don't recall.	12	can you say that the biopsy that was taken during the
13	Q We know that he had 30 years of exposure to	13	first week of May gives you an indication of what his
14	the world and the environment around us which includes		
		15	kidney looked like five weeks before unless you agree
15	some nephrotoxins, right?	16	there were no substantial changes in those five weeks?
16	A Yes.	i	A Well, there's the difference between the
17	Q Something as simple as an Advil is a	17	acute changes and the chronic stuff. Again, this
18	nephrotoxin?	18	would be something more for the renal pathologist to
19	A Well, it's debatable, but it can be.	19	talk about, the chronicity of it.
20	Q Well, in the right amounts. So	20	As a clinician looking at this biopsy
21	A If someone takes five thousand pills over	21	report, my impression is that the scarring would have
22	your lifetime it is a debatable issue.	22	been present for sort of months kind of thing and the
23	Q Okay. There's a black box warning on the	23	acute changes would be more acute than that.
24	Advil label, right?	24	Q But you can't sit here as a nephrologist
25	A Yes.	25	and tell us that the acute changes versus the chronic
	Page 35		Page 37
1	Q Meaning the FDA has asked the manufacturers	1	changes caused the final shut down of his kidney, can
2	of Advil and Ibuprofen and all the name brands to	2	you?
3	place a warning on the label that says this drug can	3	A No. I believe that you can say that the
4	cause kidney damage. It can cause other damage to	4	acute changes caused the final shut down of his
5	your body, right?	5	kidney. He was absolutely fine, working and had no
6	A Yes. It is a matter of context with other	6	symptoms prior to that and then was exposed to a
7	medications and other illnesses, it certainly can in	_	by implomits prior to that and then was exposed to a
8	incurrently and other innesses, it certainly can in	7	nephrotoxin and then got sick over the time course
9	· · · · · · · · · · · · · · · · · · ·	8	
	the average healthy person. But I think that is so tangential to this discussion.		nephrotoxin and then got sick over the time course
10	the average healthy person. But I think that is so	8	nephrotoxin and then got sick over the time course that someone would become uremic with pretty much
10 11	the average healthy person. But I think that is so tangential to this discussion.	8 9	nephrotoxin and then got sick over the time course that someone would become uremic with pretty much complete renal failure. So, I do think you can as a
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Marino over the tipping point. If you are going to

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whether he was very close to that tipping point you

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Page 38 1 hold that opinion -- do you hold that opinion or do A I don't think to any reasonable medical 2 2 you say I rely on the pathologists to hold that certainty there is. 3 3 Q Like what is the percentage chances it was opinion? 4 A No, I hold that opinion. I read this due from chronic as opposed to acute? 5 5 report and thought as a nephrologist what my MR. LYNAM: No. He's not going to understanding of renal pathology is that the findings 6 answer that question. He's just said to a 7 of ATN can be very subtle and if you see any of it at 7 reasonable medical degree of certainty it was not related. Now you are going to ask 8 8 all it means there's a substantial amount of it. And 9 9 this fits with my understanding of the clinical him to put numbers on that? 10 10 course. So, I saw that as validating. MR. LAMB: It is federal court 11 O Where did you learn that if you see any 11 deposition. You can't do speaking 12 acute tubule necrosis at all that it is a substantial 12 objections especially with an expert. 13 13 MR. LYNAM: I get that. But I think amount of it? 14 14 A I don't know exactly where. It's something the questions need to be fair. 15 -- a fact that I carry around. 15 MR. LAMB: I will ask it a different 16 Q If there was extensive acute tubule 16 way. 17 17 necrosis, it would have been noted in the Columbia BY MR. LAMB: 18 Q What does that mean to a reasonable degree 18 pathology report, right? 19 19 MR. LYNAM: Objection. of medical certainty to you? What percentage is that 20 20 BY MR, LAMB: out of 100 percent? 21 21 Q I mean you teach at Columbia, right? A It is somewhere more than zero, but less 22 22 than one. I think it is essentially inconceivable. 23 23 Q Do you trust Columbia's pathologists? This is the disease I spent the bulk of my 24 professional life dealing with, namely chronic kidney 24 A Yes. 25 25 Q You trust them to diagnose your own disease. And people with chronic kidney disease Page 39 1 1 patients? 2 2 A Yes. 3 3

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Q So, if they saw acute tubule necrosis to any degree that they thought maybe more significant than they were seeing, don't you believe those good board certified pathologists at Columbia would have noted it in their findings acute tubular necrosis?

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A No. I think this is a typical pathology report. And usually as a clinician I would call the pathologist and talk about it with them. In fact they call us. It's never just a report.

Again, all I can say that as a clinician looking at this report, not having seen the patient, but with an awareness of the clinical course and not having directly talked to the pathologist that this fits with a biopsy of someone with substantial chronic kidney disease who has an acute injury, seen by the subtle findings of tubular injury.

O So, it is your opinion that there is no chance that Mr. Marino's arrival at the emergency room in early May in 2014 was due to just only the chronic changes to his kidney?

A I don't think it was.

Q You don't think it was, is there any chance it was?

progress slowly. Particularly someone like this who's probably had the disease since childhood. They don't just go like that. A switch doesn't turn off and they get symptoms without something else happening.

So, if there were no nephrotoxic events and I will be vague about what nephrotoxic events would be, but if it was just the course of chronic kidney disease, I would not expect him to develop explosive symptoms like that. I would expect him to progressively become fatigue, have morning nausea, metal taste in his mouth, insomnia, itch, trouble sleeping, trouble with numbers. Sort of slowly develop symptoms.

He is a young guy. Maybe his wife would be the one who notices it. But he's also a hard working guy, so he might have the symptoms of anemia. But this would not be the typical course of chronic kidney disease by any stretch of the imagination. This is a typical course of someone with chronic kidney disease, who has some superimposed injury.

And you are obviously well-versed in what those injuries could be. It could be a bad case of the flu. It could be taking a load of Advil. It could be any number of things, but one of those things is the one that he happened to have which is exposure



1 over. 2 Q Okay. 3 MR. LYNAM: Let him finish. 1 Q So, in terms of the effects upon the kidney 2 of a nephrotoxin, is there any study that measures a 3 dose response relationship between the amount of the	2 3 4 5	Page 42		Page 44
2 my mind that that is what this is. 3 Q How many cases have you had like this in 4 your career? 5 A Of patient with chronic kidney disease who 6 7 Q Let's start with the nephrotoxin and then 8 suffered kidney failure. 9 A It is a common situation. The bulk of my 10 professional life is spent following patients with 11 chronic kidney disease. Let's make it simple. 12 Because the recommendations for care, certain 13 guidelines for care are almost outrageous at their 14 face which is to take someone who feels perfectly well 15 with stage IV chronic kidney disease who might want to 17 renal transplant, it's said that it is time to start 18 talking to them about measures like transplant listing 19 or preparation for dialysis. And they generally don't 20 believe that. 21 The conversation you have to have is you're 22 a bad case of the flu away from being on dialysis. 23 Particularly if it's an older person. Particularly if 24 you have late stage or chronic kidney disease. They 25 feel perfectly fine, but something could tip them  Page 43  over.  Q Okay.  MR. LYNAM: Let him finish.  The WITNESS: A lot of time is spent talking about that. And then how often does it happen, how often does someone  A It is a notaking the withests to guess, I am asking the withestsone usestimate.  BYMR. LAMB:  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number would be.  Q Doyou know if it is less than ten?  A Boy -1 just don't have an idea what the number wou	2 3 4 5	to hydrocarbons or nephrotoxins. There's no doubt in	1	track it. Are you asking the witness to
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			7	Q I will ask it again. I am looking for any
8 A couple of times a year. 8 information you have in the literature or anywhere	7	A couple of times a year.	8	information you have in the literature or anywhere
			9	else of a dose response relationship between exposure
10 Q Let me reask the question. I want to make 10 to a nephrotoxin and resultant injury to the kidneys	8		10	
11 sure you heard my question. Then I will follow up 11 in terms of percentage tubules or number of tubules	8 9		11	in terms of percentage tubules or number of tubules
12 with a few things. How long have you been practicing 12 affected, anything like that?	8 9 10	sure you heard my question. Then I will follow up	12	affected, anything like that?
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14 A About 23, 25 years. 14 Q Any nephrotoxin.	8 9 10 11 12	with a few things. How long have you been practicing		A So, any nephrotoxin?
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19 renal failure? How many cases? 19 for three hours to 30 percent of your skin or for six	8 9 10 11 12 13 14 15 16 17	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease	13 14 15 16 17	<ul><li>Q Any nephrotoxin.</li><li>A You are asking about</li><li>Q I will ask it again. Is there some type of</li></ul>
20 A I don't track that. I couldn't give you a 20 hours to 40 percent of your skin, that your kidney	8 9 10 11 12 13 14 15 16 17	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease who is exposed to a nephrotoxin that propels them into	13 14 15 16 17 18	Q Any nephrotoxin.  A You are asking about Q I will ask it again. Is there some type of mathematical formula, is there some type of way of calculating saying if you're exposed to a nephrotoxin
21 number. 21 function will be effected as follows?	8 9 10 11 12 13 14 15 16 17 18	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease who is exposed to a nephrotoxin that propels them into renal failure? How many cases?	13 14 15 16 17 18	Q Any nephrotoxin. A You are asking about Q I will ask it again. Is there some type of mathematical formula, is there some type of way of calculating saying if you're exposed to a nephrotoxin for three hours to 30 percent of your skin or for six
22 Q Do you think you have had any? 22 A I see. I am thinking how difficult that	8 9 10 11 12 13 14 15 16 17 18 19 20	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease who is exposed to a nephrotoxin that propels them into renal failure? How many cases?  A I don't track that. I couldn't give you a	13 14 15 16 17 18 19 20	Q Any nephrotoxin.  A You are asking about Q I will ask it again. Is there some type of mathematical formula, is there some type of way of calculating saying if you're exposed to a nephrotoxin for three hours to 30 percent of your skin or for six hours to 40 percent of your skin, that your kidney
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24 Q How many? Less than ten? 24 different numbers of nephrons. The closest thing I	8 9 10 11 12 13 14 15 16 17 18 19 20 21	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease who is exposed to a nephrotoxin that propels them into renal failure? How many cases?  A I don't track that. I couldn't give you a number.  Q Do you think you have had any?	13 14 15 16 17 18 19 20 21 22	Q Any nephrotoxin.  A You are asking about Q I will ask it again. Is there some type of mathematical formula, is there some type of way of calculating saying if you're exposed to a nephrotoxin for three hours to 30 percent of your skin or for six hours to 40 percent of your skin, that your kidney function will be effected as follows?
25 MR. LYNAM: He just said he doesn't 25 can think of is with Fleet phosphate soda literature	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	with a few things. How long have you been practicing as a nephrologist?  A About 23, 25 years.  Q Let's say 25. I am not trying to age you.  Let's say, 25. How many cases have you had in this 25 years of someone who's had chronic kidney disease who is exposed to a nephrotoxin that propels them into renal failure? How many cases?  A I don't track that. I couldn't give you a number.  Q Do you think you have had any?  A Yes.	13 14 15 16 17 18 19 20 21 22 23 24	Q Any nephrotoxin.  A You are asking about Q I will ask it again. Is there some type of mathematical formula, is there some type of way of calculating saying if you're exposed to a nephrotoxin for three hours to 30 percent of your skin or for six hours to 40 percent of your skin, that your kidney function will be effected as follows?  A I see. I am thinking how difficult that would be to do because you have different size people, different numbers of nephrons. The closest thing I



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# where there's the nephrotoxin that includes use to prepare people for colonoscopy that caused kidney failure. And it wasn't biopsy studies but smaller people and women were more likely to get permanent renal failure and it was based on the size of the dose for the size of the person. So, there's things like that. I don't think there's studies like that.

That's a better question for some of the other people -- the experts in this case. It's not something that a clinical nephrologist would encounter.

Q I have to probe the extent of your knowledge. So, don't take it as anything other than me trying to figure out where your knowledge begins or ends or get close to that.

Are there any studies that show the results of exposure to diesel fuel in particular on the kidney? For instance, if you say if your skin is exposed to this much diesel or this concentration for this much time, it results in this percentage loss of glomeruli or tubulus. It would just be tubulus -- I'm sorry. Let me rephrase the question.

Is there any literature or any scientific study or any scientific formula or anything scientific which says exposure to diesel on your skin at this Page 48

- Marino's kidneys shut down? They stopped working?
  - A Yes.
- Q And that point can be quantified if you look at the number of glomeruli and the number tubules, right?
  - A Yes.
- Q I mean we know, the Columbia biopsies show it was taken after his kidneys failed, the biopsy, correct?
  - A Yes.
- Q So, we know after his kidneys stopped working, there certainly was no more damage to them?

  MR. LYNAM: Objection to the form.

THE WITNESS: They are still working

to some extent. There's ongoing damage.

### BY MR. LAMB:

Q Explain that to me. If an individual is at end stage renal failure and their kidneys stopped working, could there still be damage to their glomeruli and tubules?

A Yes, there is. There definitely is. People will develop symptoms in about ten percent of kidney function or less. The remaining kidney function still actually has some benefits to them. It's not enough to keep them healthy, but when added

Page 47

concentration results in this percentage loss or this number of loss of tubulus or any other effect on the kidney?

A So, that would be something that a toxicologist would know more than I would. As clinician the sort of evidence I look at is the case reports.

Q What I'm getting at, you believe that Mr. Marino had exposure to nephrotoxin diesel? You believe that pushed him over the edge, but you can't testify as to what percentage of the tubules or even the nephrons were damaged by that exposure?

A Correct. Nor does that have relevance to my opinion, but I can't testify to that.

Q Well, as you call it, the tipping point. There's a point with Mr. Marino's kidneys where the loss of the nephrons that includes the glomeruli and tubules became so severe that his kidneys ceased to function, right?

A Yes.

Q So, what was that percentage? Was that the percentage reflected in the Columbia biopsy after his kidneys failed?

A I don't understand the question.

Q Sure. There's a point at which Mr.

Page 49

to dialysis or to a transplanted kidney, it's actually important and it helps keep them feeling well. And there's a lot of correlates between keeping your residual kidney function on dialysis and survival. So, it is a big issue in nephrology. I don't think it has relevance here.

What I think it is important to understand is that when they look at this biopsy -- his kidneys we know are about eight centimeters on each side because they were imaged. They are looking at a tiny piece of kidney. They are looking at basically a centimeter piece of kidney. That's the size of a pencil lead in diameter. It's a small piece. And they are making inferences about the rest of the kidney. And those are pretty accurate, but so again this goes to my point about the ATN. If you see ATN on a little patch of biopsy, that has significance when you put it together with the clinical facts.

- Q You're not calling the Columbia biopsy report unreliable, are you?
  - A No, I think it is completely reliable.
- Q Let me get back to my other question. When Mr. Marino first reported to the emergency room at St. Luke's, he was in renal failure, right?

A Yes.



	Page 50		Page 52
1	Q There is no doubt about that?	1	forward. That continues as he goes to the E.R.
2	A Correct.	2	When he's given fluid, there may be some
3	Q When you're in that state of renal failure,	3	restoration of volume depletion that is making his
4	the extent of renal failure that he has, where I	4	kidney function worse. But he needs dialysis.
5	believe, his lab work I am sorry I don't have it.	5	Dialysis itself can cause some injury to the kidney
6	Just give me second. I think his creatinine level was	6	theoretically. But the tipping point or the
7	14, is that right?	7	precipitant is still the nephrotoxin.
8	A Yes.	8	Q Can you sit there and say to a reasonable
9	Q So, his creatinine level of 14, means he	9.	degree of medical certainty that the alleged acute
10	was in renal failure?	10	changes that you saw at brush borders could not have
11	A Yes.	11	been due to dehydration or something else that
12	Q When your creatinine level gets that high,	12	occurred in the week before he arrived at the E.R.?
13	do you continue to suffer damage to your kidneys just	13	A To a legal degree of medical certainty, I
14	because the kidneys are working overtime? I think you	14	don't think there was. It is a mix of things
15	said that earlier, right?	15	triggered by the nephrotoxin. So as you become uremic
16	A Yes.	16	it's sort of a vicious cycle of downward spiral. So,
17	Q So, if he comes to St. Luke's on May 1st,	17	part of uremia is getting behind it. So, it's part
18	he's in renal failure? He's not doing well,	18	and parcel of the same process. To a reasonable
19	obviously. He's not healthy? He's not able to keep	19	degree of medical certainty, I think it is the
20	food down, not able to keep water down. He's in	20	nephrotoxin that tipped him over and nothing else,
21	distress?	21	obviously based on testimony and medical records.
22	A Yes.	22	Q If he had the flu after he was at Pilot
23	Q And the biopsy is not taken until can I	23	Travel Center, would you question whether it was the
24	have the Columbia report? It's taken on the fifth,	24	flu or the alleged nephrotoxin that caused his tipping
25	right?	25	over as you say?
	Page 51		Page 53
1	MR. LYNAM: Yes.	1	A If any number of other things that could be
2	BY MR. LAMB:	2	potentially nephrotoxic happened, it would be hard to
3	Q The biopsy is not taken until the fifth.	3	slice and dice it and come up with a single answer.
4	Would you agree with me that there could have been	4	There's multiple factors you would try to sort out.
5	changes in his kidneys over those three or 4 days?	5	What it was it was something more dependent on the
6	A I suppose. Not too significant, but the	6	people who were treating him at the time, then I could
7	kind of thing I am talking about is the kidneys	7	get retrospectively looking at the records.
8	continue to damage themselves over time is something	8	Q If he had never gone to Pilot, just
9	that happens over years.	9	continued as a plumber, he had a bad case of the flu
10	Q But my question is when a patient is in	10	that winter, could you say whether or not that could
11	that extraordinary distress. You saw how he showed up	11	have tipped him over to renal failure?
12	in the emergency room, what his levels were and the	12	A Really bad flu could. Terrible flu could,
13	fact he wasn't taking food and water, aren't there	13	sure.
14	changes that still continue to take place in the	14	MR. LAMB: Tom, you don't have
15	kidneys between his admission to E.R. and when that	1.5	anything, I guess?
16	biopsy is taken?	16	MR. HARRINGTON: One or two.
17	A I don't think so. I mean not particularly.	17	MR. LAMB: Okay. Go ahead.
18 19	I think we just have different models of how this injured him. He had advanced chronic kidney disease,	18 19	CDOSS EVAMINATION BY MP. HARDINGTON.
20		20	CROSS EXAMINATION BY MR. HARRINGTON:
21	was exposed to a nephrotoxin that damaged again, obviously, this is my opinion, you know that, that	21	Q Doctor, would you list for me again the symptoms that you associate with someone who has
22	damaged enough of his remaining kidney function so	22	suffered from acute kidney injury?
23	damaged chough of me femaling kidney function so		
	that he got all the progressive symptoms of kidney	23	MR LYNAM: Lwill just object to
	that he got all the progressive symptoms of kidney failure. Those include dehydration, severe acidosis.	23 24	MR. LYNAM: I will just object to the form. Asked and answered. You are
24 25	that he got all the progressive symptoms of kidney failure. Those include dehydration, severe acidosis, severe anemia, those in turn damaged his kidneys going	23 24 25	MR. LYNAM: I will just object to the form. Asked and answered. You are asking him the exact same question that Pat



	Page 54		Page 56
1	already asked.	1	themselves following the exposure to the toxin?
2	MR. HARRINGTON: You want me to	2	A I would say it would be very variable.
3	have the court reporter try to find it	3	This history is a pretty reasonable one that he had.
4	MR. LYNAM: Go ahead. Answer it	4	I think it was a week or so and then started
5	again,	5	developing progressively worsening symptoms.
6	MR. HARRINGTON: Pardon me. We are	6	Q So, within a week, would you say?
7	both speaking at the same time and it makes	7	A No, I don't think there's a really good
8	it very difficult for anybody to understand	8	timeline. It would depend on the extent of their
9	what anybody is saying.	9	chronic kidney disease and the extent of the acute
10	MR. LYNAM: Tom, I asked the witness	10	injury. I don't think that there would be sort of a
11	to go ahead and answer the question for a	11	typical timeline. I would say his is typical of that.
12	second time for your benefit.	12	Q And when did you say he began to develop
13	MR. HARRINGTON: Thank you very	13	his symptoms?
14	much.	14	A I will just try to get the dates correct.
15	BY MR. HARRINGTON:	15	I believe it was about a week or two after exposure.
16	Q Go ahead Doctor.	16	And then about a month of progressive symptoms. But I
17	A The answer I gave was actually, I think,	17	may want to look at the records to be sure about that.
18	the symptoms of more uremia than acute kidney injury.	1.8	Unfortunately, I didn't write down the exact dates in
19	Someone with acute kidney injury would often not have	19	my report. I look at it. It seemed very typical, but
20	symptoms if it were just an acute kidney injury. They	20	didn't write down the dates. So I apologize about
21	might notice a drop in their urine output. Or they	21	that. I could provide that to you later after looking
22	might have symptoms associated with the cause of the	22	at the records.
23	acute kidney injury. They might then go on to develop	23	Q Would you agree or disagree that the
24	the symptoms of kidney failure which is what I was	24	symptoms you described would normally present
25	talking about. And some of those are nausea,	25	themselves within four to 5 days after the exposure
	Page 55		Page 57
1	typically morning nausea as opposed to nausea the rest	1	that caused the acute kidney injury?
2	of the day that is often relieved by eating breakfast.	2	A No, I would disagree.
3	A metallic taste in the mouth, loss of interest in	3	Q And do you know how many days it was
4	meat, trouble with calculation, insomnia, itching,	4	between Mr. Marino's alleged exposure to the toxins
5	symptoms of anemia which can be fatigue or shortness	5	and his presentation to the hospital?
6	of breath, sometimes headaches. Those are the main	6	A The number that sticks in my mind is six
7	ones anyway.	7	weeks, but I would want to double check on that.
8	Q Now, were you just describing the symptoms	8	Q That would be beyond what you would think
9	of someone who only had an acute kidney injury or is	9	is normal for the presentation of the symptoms, would
10	that someone who had the acute kidney injury on top of	10	it not?
11	chronic kidney disease?	11	A No. I think it would be very typical. It
12	A No, it's neither of those. It's the	12.	would be variable how rapidly the symptoms would
13	symptoms of someone with kidney failure or what would		develop. And it would be variable of what someone's
14	be called uremia.	14	threshold to seek medical attention would be. So, I
15	Q Okay. What are the symptoms then that	15	don't think there's really a typical time course. I
16	someone would experience if he had chronic kidney	16	think a couple of weeks and a month are definitely
17	disease and an acute kidney injury to exposure to a	17	within the range.

plumber everyday?

question.

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toxin?

disease and an acute kidney injury to exposure to a

their chronic kidney disease until very late. And

then if they had an acute kidney injury that tipped

them over into end stage kidney disease or uremic

symptoms, those would be the symptoms I mentioned.

mentioned attributable to acute kidney disease present

Q How quickly would the symptoms that you

A They would typically not have symptoms of

Q You think if someone suffered from all

A I can tell you I'm amazed at what symptoms

Q I guess you didn't hear or understand my

A Could he still work as a plumber with those

those symptoms you described could do work as a

people will put up with to go to work.

symptoms? And the answer is, yes.  Q No matter how severe they became?  A I manazed at how many symptoms people will put up with to continue to work. It's astonishing. Q We have fatigue, insomnia, bad taste in the mouth, nauseu, vorniting, inability to calculate and he could still work as a plumber?  A I have people who do manual work like that despite incredibly advanced kidney disease.  Q For five weeks?  A The person I am going to go see in my diffice right ulter I finish this deposition is on dillysis now, is learning to do home hemodialysis. Is a carpenter and a contractor and I am been begging hime to start dialysis for the attractor and I am been begging hime for months based on similar levels of kidney function to Mr. Marino but with medical management. So, he's no go putsum insh' high. Probably lors 30 pounds of weight. Unable to sleep. He continued to work because he has to. So, what people do amazes me. Q And what did you say his job was?  De because hat be was a poing to die from not being on dialysis.  A What conclusion reached by the nephrologist that treated Mr. Marino while he was a patient at St. Lakes?  A What conclusion reached by the nephrologist that treated Mr. Marino while he was a patient at St. Lakes?  A What conclusion reached by the nephrologist that treated Mr. Marino while he was a patient at St. Lakes?  A What conclusion reached by the nephrologist that treated Mr. Marino while he was a patient at St. C Justices?  A What conclusion is that? I don't think I disagraced with them. Q That the reason his kidneys failed was due to chronic kidney disease and not any acute injury.  MR. LYNAM: Let me object the form, it misstutes the facts. What documents are you referring to Tom?  MR. HARRINGTON: What we used as the deposition. That part of the testimony you are talking about Tom?  MR. HARRINGTON: You were representing that I was misrepresenting the deposition. That part of the testimony you are talking about Tom?  MR. HARRINGTON: What we used as the deposition. That part of the testimony		Page 58		Page 60
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	Page 62		Page 64
1	second opinion to his family doctor came to the same	1	MR. LYNAM: Next question Tom. We
2	conclusion as Dr. Datch, you would disagree with that	2	are not accepting your inaccurate
3	nephrologist's opinion?	3	summarization of the medical records.
4	A No, that is not a fair question. I would	4	MR. HARRINGTON: That is your
5	have to look at his records and see what evidence he	5	objection to the question?
6	used to reach his conclusion. I might agree with him.	6	MR. LYNAM: Yes. Ask the next
7	But I would need to look at his records. I'd need to	7	question, please, Tom.
8	know exactly what his opinion was and how much he felt	i	MR. HARRINGTON: Are you
9	was chronic and how much of it was acute. I think	9	instructing the witness that he can't
10	regardless, when someone is giving opinions about Mr.	10	answer it?
11	Marino's medical care, he's receiving excellent	11	MR. LYNAM: Are you asking this
12	medical care so there would be no disagreement there.	12	witness to accept your brief summarization
13	Again, I would have to look at the specifics of what	13	of what
14	information he had, what conversations he had with the	14	MR. HARRINGTON: Is your
15	pathologist and what his conclusions were. And I	15	objection
16	would be happy to do that.	16	MR. LYNAM: I didn't hear what you
17	Q Do you think it is necessary for the	17	said Tom.
18	treating nephrologist to have conversations with the	18	MR. HARRINGTON: I said, is your
19	pathologist?	19	objection an instruction to the witness not
20	A It is usual. It is typical in the standard	20	to answer my question?
21	of care. Sometimes it is, sometimes it isn't. If	21	MR. LYNAM: If I would have
22	you're Dr. Datch taking care of Mr. Marino, it's not	22	instructed the witness not to answer, you
23	clinically necessary at all. If you're Doctor Datch	23	would have heard me say I instruct the
24	who's going to be asked to give a specific opinion	24	witness not to answer.
25	about what portion of Mr. Marino's kidney disease is	25	MR. LAMB: Tom, just reask the
	Page 63		Page 65
1	chronic or acute, then it would be necessary. But for	1	question.
2	his medical care it would not be necessary. Again, I	2	MR. HARRINGTON: Court reporter,
3	have no criticism of Dr. Datch's medical care. It was	3	read back my last question, please.
4	excellent.	4	MR. LAMB: Tom, what I need to do,
5	Q If the opinion of the doctor who gave Mr.	5	Tom Harrington and Tom Lynam, for the
6	Marino's family doctor a second opinion was the same,	6	benefit of my good friend here Bob Miller
7	namely that his kidney problems were the result of	7	is to make sure because there is a delay on
8	chronic kidney disease, would you disagree with that	8	the phone, when you guys get into an
9	doctor's opinion?	9	argument let each other finish so Mr.
10	MR. LYNAM: Tom, I am going to	10	Miller can take down everything. I am sure
11	object to the form. It misstates the	11	he's losing stuff. So, Tom Harrington
12	facts. If you want to show him	12	sometimes maybe silence is better until Tom
13	something	13	Lynam finishes in the room and then you can
14	MR. HARRINGTON: Oh, should I make	14	respond. Do you know what I am saying?
15	the trip right now, Tom?	15	MR. HARRINGTON: Yes, sir.
16	MR. LYNAM: No. I would have	16	MR. LAMB: Tom Harrington, do you
17	assumed you would have prepared for the	17	need more than nine minutes to wrap up this
18	deposition and if you had documents you	18	witness?
19	wanted to show to the witness, you would	19	MR. HARRINGTON: I do not.
20	have sent them to Pat and he would have	20	MR. LAMB: Go ahead, please, ask
21	sent them to me so we could put them in	21	your question.
22	front of the witness. You're summarizing	22	BY MR. HARRINGTON:
23		23	Q Doctor, if the findings and conclusions of
24	MR. HARRINGTON: Keep talking Tom.	24	the nephrologist who examined Mr. Marino at the
25	Keep talking.	25	request of Mr. Marino's family doctor were the same

indinings and conclusions that Dr. Datch reached, result of chronic kidney disease ruther than an acute kidney injury, would you disagree with the findings of that nephrologist?  A I would want to look at the specific report and hear what information he based that on, but I would say that none of us disagree that much. There's a lot of chronic kidney disease here. And it is my opinion supported by the reanl pathology that he was tipped over by something. So, yes, there's a lot of chronic kidney disease, but the nuances think are important. Not for his clinical care, but for determining who's at fainly, you will will.  Q Are you saying Doctor then that Dr. Datch in the second opinion, the nephrologist, missed the subtleties that you're relying on?  A I believe so. It is complicated. I haven't read. I don't know how cles to unswer that. You are usking me to give my opinion about a report I haven't read. I sent her publiology report when he gave his opinion. So that is all I can say about that. I am sorry.  Q You mean Dr. Datch had not seen the pathology report at the time of Mr. Marino's discharge?  A I believe not. I just read Dr. Datch's deposition. And I certainly think he did not talk to the pathologist. I would want to look at the pathology report from Columbia at the time Mr. Marino was discharged?  A I believe not. I just read Dr. Datch's deposition. And I certainly think he did not talk to dopart that discharged?  A I believe not. I just read Dr. Datch's deposition. And I certainly think he did not talk to the pathologist. I would want to look at the pathology report from Columbia at the time Mr. Marino was discharged?  A I believe not. I just read Dr. Datch's disposition again. As far as the clinical care.  A I don't receil. I would want to look at the pathology report from Columbia at the time Mr. Marino was discharged?  A I believe not. I just read Dr. Datch's disposition. And I certainly think he did not talk to do, and I have no criticism of Dr. Datch's clinical care.  A I don't receil. I would want			Page 66	!	Page 68
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24 transplant? 24 sheets are?		22	Q Can you explain generally the types of		BY MR. LYNAM:
•	l		medication a patient will need after a kidney		Q Doctor, are you familiar with what MSDS
25 A Yes. They will usually need 25 A Yes.			. 1 .0	1 21	-ht9



	Page 70		Page 72
1	Q Have you had occasion to rely on them in	1	We are going off the record.
2	the practice of medicine?	2	(At 11:31 the deposition was concluded.)
3	MR, LAMB: Objection.	3	(The 11131 and deposition was constaucu.)
4	A Yes.	4	
5	Q I am going to ask you to assume for the	5	
6	purpose of this question strike that.	6	
7	You have seen the MSDS sheets in this case,	7	
		8	
8	correct?		
9	A Yes.	9	
10	Q And they were MSDS sheets for toluene and	10	
11	for diesel fuel, correct?	11	•
12	A Yes.	12	
13	Q And did they list any adverse reactions	13	
14	that would be expected with regard to the kidneys?	14	
15	A Basic kidney injury. I forget the exact	15	
16	wording. Kidney damage was a potential side effect.	16	
17	Q So, the toluene MSDS sheet, I believe, said	17	
18	that a target organ was kidney. And the diesel, I	18	
19	believe said it would be an expected response from	19	
20	skin absorption would be kidney damage.	20	
21	When you as a physician see something like	21	
22	that in a MSDS sheet, is that something you would rely	22	
23	on as being scientifically valid?	23	
24	A Yes.	24	
25	MR. LAMB: Sorry, objection to the	25	
	Page 71		Page 73
1	last question.	1	STATE OF CONNECTICUT)
2	BY MR. LYNAM:	2	) ss:
3	Q We talked about this tipping point and the	3	COUNTY OF HARTFORD )
4	various things that could push a person with a chronic	4	I, Robert Miller, a Notary Public, do
5	kidney disease over this tipping point, would it be	5	hereby certify that Dr. Eric Brown was by me first
6	fair to say	6	duly sworn, to testify the truth, the whole truth, and
7	MR. LAMB: I will object fair to	7	nothing but the truth, and that the above deposition,
8	say, Drew actually pointed this out to me	8	was recorded stenographically pursuant to Notice by me
l	• • • • • • • • • • • • • • • • • • • •	9	and reduced to printed transcript by me.
9	the other day. I have to object to is it	10	I FURTHER CERTIFY that the foregoing
10	fair to say because everything in my mind	11	transcript of the said deposition is a true and
11	is fair to say. We had this debate before.	12	correct transcript of the testimony given by the said
12	I am not trying to delay the video. Drew	13	witness at the time and place specified hereinbefore.
13	just pointed it out to me the other day,	14	I FURTHER CERTIFY that I am not a relative
14	Tom Lynam, is it's fair to say. If you	15	or employee or attorney or counsel of any of the
15	could not use fair to say. I mean you can,	16	parties, nor a relative or employee of such attorney
16	but I'm going to object to it here and at	17 18	or counsel, or financially interested directly or indirectly in this action.
17	trial. Everything is fair to say.	18	IN WITNESS WHEREOF, I have hereunto set my
18	BY MR. LAMB:	20	hand and seal of office at East Hartford, Connecticut,
19	Q I will withdraw the question. That's all.	21	this day of , 2015.
20	MR. LAMB: I will not trying	22	1115 day 01 , 2015.
21	BY MR. LAMB:	""	(SEAL)
22	Q No more questions. Thank you.	23	Robert Miller, Notary Public
23	MR. HARRINGTON: I would like a	24	
	_	l .	36 37 · O · I · I · D · I
24 25	transcript.		My Notary Commission Expires

# Case 5:14-cv-04672-JFL Document 81-5 Filed 09/23/15 Page 21 of 34

	Page 74	
	INDEX TNESS DIRECT CROSS REDIRECT RECROSS L ERIC BROWN 5 53(H) 67(L)	
5 6	EXHIBITS (For Identification) HIBIT PAGE	
9 10 11 12 13		
15 16 17 18 19 20		
21 22 23 24 25		
		·



A
able 13:24 50:19,20
absence 20:19
21:15 22:12
absolutely 37:5
absorption 70:20
abstract 27:4
accelerator 18:8
accept 64:12
accepting 64:2
access 8:16
accident 13:3
accurate 49:15
acid 58:18
acidosis 51:24
action 1:5 73:18
active 15:18
acute 9:8,13 10:6
10:17,25 14:10,12
14:13 15:13,23
16:2,21 18:24
19:11 24:15,22
26:4 29:17,19
36:17,23,23,25
37:4,12,17,22
38:12,16 39:3,7
39:17 40:4 52:9
53:22 54:18,19,20
54:23 55:9,10,17
55:21,25 56:9
57:1 59:11 62:9
63:1 66:3
added 48:25
address 5:6
adhesives 33:25
34:9
admission 8:18
51:15
advance 25:19
advanced 30:17
51:19 58:9
adverse 70:13
advil 16:17 33:14
34:17,24 35:2 41:23
41:23

age 2:2 43:15
agents 68:15
agree 14:11 17:18
20:19 23:13 26:11
27:18 33:4,9
36:14 51:4 56:23
62:6
agreed 2:10,16,22
ahead 12:22 22:21
53:17 54:4,11,16
65:20
al 1:4,7
alleged 52:9,24
57:4
allegedly 37:24
allentown 8:17
amazed 57:21 58:3
amazes 58:22
amazes 38.22 amount 23:21
25:13 28:4 38:8
38:13 45:3
amounts 34:20
anemia 41:16 51:25
55:5
anemic 58:18
answer 10:23 11:15
12:21 16:23 17:1
17:17 21:4,25
22:4,7 25:17 27:3
27:5 31:4 37:20
40:6 53:3 54:4,11
54:17 58:1 60:16
60:18 64:10,20,22
64:24 66:21 68:22
answered 53:24
antibiotic 68:4
antihypertensive
68:1
anybody 54:8,9
anyway 55:7
anyway 55.7 apical 9:24 10:16
_
apologize 56:20
appearances 1:10
3:19
appears 19:12
20:14
l

appropiate 61:2	I
appreciate 61:2 approximately	l
	l
29:18	l
april 73:25	l
area 17:14	l
arent 14:13 51:13	l
argument 65:9	۱
arrival 39:20	l
arrived 52:12	l
article 20:14 21:24	
23:18	l
articles 18:3 20:15	l
asked 21:5 35:1	l
53:24 54:1,10	l
60:16 62:24	l
asking 17:2 26:19	l
44:1,3,4 45:15	l
53:25 64:11 66:21	l
assistance 61:3	l
associate 53:21	
associated 54:22	
<b>assume</b> 35:17 70:5	
assumed 63:17	
assuming 61:25	
astonishing 58:4	
atn 31:23,25 38:7	1
49:16,16	
atns 31:24	l
attached 14:17,23	l
14:24	l
attacking 15:15,16	l
attention 57:14	l
attorney 73:15,16	l
attorneys 1:12,16	1
	l
1:20	l
attributable 55:25	l
august 2:6 3:9 7:20	1
authority 2:14	
available 8:14	
21:13	
average 7:10 35:8	
aware 24:2 28:25	l
29:9 61:16	
awareness 39:14	
	1
В	ı

<b>b</b> 5:1 74:5
back 17:17 24:4,11
24:23 26:10 49:22
65:3
bad 41:22 42:22
53:9,12 58:5
based 8:23 9:9
27:15 29:22 37:16
46:5 52:21 58:16
66:7
baseline 24:23
<b>basic</b> 70:15
basically 8:12
12:24 13:8 49:11
basis 7:8 60:14
began 56:12
begging 58:14
beginning 3:2
begins 46:14
belief 31:21
believe 7:25 8:20
20:16 30:6 37:3
39:5 42:20 47:8
47:10 50:5 56:15
60:11 66:18 67:4
70:17,19
benefit 54:12 65:6
benefits 48:24
best 13:14
bet 32:25
better 16:18 46:8
65:12
beyond 57:8 68:25
big 49:5
biologically 10:20
biopsies 25:15 27:6
48:7
biopsy 8:19 10:15
14:15 16:6,17
25:12,22,23 26:6
26:8,24 27:22
28:10 29:2 35:11
36:6,12,20 39:16
46:3 47:22 48:8
49:8,17,19 50:23
51:3,16

bisgaard 1:20 bit 31:9 61:14 black 34:23 block 68:13 **blood** 11:13 13:2 28:16 58:19 board 6:18,20 39:6 **bob** 65:6 bodies 12:1 **body** 21:22 22:1 35:5 border 9:24 10:16 10:21 borders 17:5 52:10 born 32:24 boulevard 1:17 **box** 34:23 **boy** 44:8 brands 35:2 breakfast 55:2 breath 55:6 **brief** 64:12 briefly 5:19 brisbois 1:20 brought 30:10 **brown** 1:9 2:1 3:3 5:8,14 73:5 74:2 brush 9:24 10:16 10:21 17:5 52:10 **buildup** 58:18 **bulk** 40:23 42:9 bunch 26:22 27:13 bushes 12:8 business 34:1  $\mathbf{C}$ 

# c 1:18 3:8,14 5:1 calculate 58:6 calculating 45:18 calculation 55:4 call 12:23 39:9,11 47:15 called 5:2 24:15 27:8 55:14 calling 32:2 49:19 cancer 68:11,12



cant 14:17 36:24	certainty 32:15	49:18 66:13 67:13	conclusions 8:24,25
40:11 47:10,14	40:2,7,19 52:9,13	67:15	62:15 65:23 66:1
64:9	52:19	clinically 24:19	connecticut 2:5,6
care 8:15 42:12,13	certified 6:18,20	26:8 27:7 62:23	3:13 5:10 6:7 73:1
61:18,18 62:11,12	39:6	66:20	73:20
62:21,22 63:2,3	certify 73:5,10,14	clinician 15:21	connection 2:12
66:13 67:13,16	chance 39:20,24	36:20 37:10,13	considered 34:11
career 42:4	chances 40:3	39:9,12 47:6	consult 60:9
careful 58:19 68:10	changes 9:14 13:16	close 6:12 35:25	consultant 60:11
68:12,14	13:17 14:4,9,10	46:15	consulting 1:16 3:5
carpenter 58:14,24	14:12,13,14 28:2	closest 45:24	5:16,17
carry 38:15	29:17,19 36:15,17	clothing 8:7	contain 10:1
case 3:7 7:22 18:6	36:23,25 37:1,4	cohort 25:19	contained 60:24
18:13 19:7,7,9,12	37:17,22 39:22	coincidental 26:7	content 18:11
20:16 21:14 22:10	51:5,14 52:10	colonoscopy 46:2	context 35:6
22:18 23:5,13	check 57:7	columbia 6:23 8:9	continue 50:13 51:8
24:5,14 25:5,20	chemical 16:24	9:6,12 17:4,8,15	51:14 58:4
27:15 29:21 41:22	21:13	17:19 37:23,24	continued 53:9
42:22 46:9 47:6	child 32:23	38:17,21 39:6	58:21
53:9 70:7	childhood 14:7	47:22 48:7 49:19	continues 24:6 52:1
cases 19:13 26:14	32:16 41:2	50:24 59:19 67:10	contractor 58:14
42:3 43:16,19	chin 7:18	columbias 38:23	58:24
catching 31:6	chris 3:15	combination 32:3	contraindicated
cause 16:5,8,20	chronic 9:9 10:10	come 14:9 53:3	68:19
17:22 26:12 27:17	13:17,21,25 14:2	comes 50:17	controlled 19:15
35:4,4 52:5 54:22	14:9,14 22:13	coming 9:4	conversation 42:21
61:11	25:4 26:18,23	<b>commerce</b> 5:9 6:10	conversations
caused 17:6 26:20	30:4 36:8,17,25	commercial 69:10	62:14,18
29:17 37:1,4 46:2	37:11 39:16,21	commission 12:24	correct 5:22,25 6:8
52:24 57:1	40:4,24,25 41:7	73:24	6:16 7:24 8:21
causes 23:10 27:23	41:17,19 42:5,11	common 42:9	12:12 16:11 17:23
causing 14:8,13	42:15,24 43:17	compensate 28:19	35:13 47:13 48:9
32:22	44:12,17,23 51:19	complete 37:9	50:2 56:14 69:16
ceased 47:18	55:11,16,20 56:9	completely 15:24	70:8,11 73:12
cells 23:12 24:9	59:11 62:9 63:1,8	24:18 49:21	correlates 49:3
center 1:16 8:16	66:3,9,12,20 71:4	complicated 66:18	correlation 10:2
14:6 33:11 35:12	chronicity 36:19	component 31:11	16:12 17:1
14.0 33.11 33.12	CHIOMICHY JULIA	i Component Ji.ii	
	•	_	
35:16 52:23	civil 1:5 2:2	components 29:10	couldnt 25:17
35:16 52:23 centers 1:7,20 3:5	civil 1:5 2:2 clear 28:25	_	<b>couldnt</b> 25:17 31:20 43:20
35:16 52:23 centers 1:7,20 3:5 4:1 5:15	civil 1:5 2:2 clear 28:25 clearly 37:13	components 29:10 compromised	couldnt 25:17 31:20 43:20 counsel 2:11 3:18
35:16 52:23 centers 1:7,20 3:5 4:1 5:15 centimeter 49:12	civil 1:5 2:2 clear 28:25 clearly 37:13 clinical 10:2,3,4,7	components 29:10 compromised 12:15	<b>couldnt</b> 25:17 31:20 43:20
35:16 52:23 centers 1:7,20 3:5 4:1 5:15 centimeter 49:12	civil 1:5 2:2 clear 28:25 clearly 37:13	components 29:10 compromised 12:15 concentration 46:19 47:1	couldnt 25:17 31:20 43:20 counsel 2:11 3:18 73:15,17
35:16 52:23 centers 1:7,20 3:5 4:1 5:15 centimeter 49:12 centimeters 49:9	civil 1:5 2:2 clear 28:25 clearly 37:13 clinical 10:2,3,4,7 10:11,12 16:12,13 17:2 18:6 26:2	components 29:10 compromised 12:15 concentration	couldnt 25:17 31:20 43:20 counsel 2:11 3:18 73:15,17 county 73:3
35:16 52:23 centers 1:7,20 3:5 4:1 5:15 centimeter 49:12 centimeters 49:9 certain 24:4 33:17	civil 1:5 2:2 clear 28:25 clearly 37:13 clinical 10:2,3,4,7 10:11,12 16:12,13	components 29:10 compromised 12:15 concentration 46:19 47:1 concerning 17:24	couldnt 25:17 31:20 43:20 counsel 2:11 3:18 73:15,17 county 73:3 couple 6:14 16:16

1 38:10 39:14 41:7 41:17,19 44:10 3:1 57:15 68:5 court 1:1 3:6,16 4:2 40:10 54:3 65:2 coven 8:9 9:4 10:18 covens 9:10 creatinine 50:6,9 :5 50:12 criticism 63:3 67:15 cross 53:19 67:21 74:2 crosssection 14:16 1:8 **current 24:13** curriculum 6:15 cursory 22:1 **cut** 19:25 33:23 2:1 60:17 **cycle** 52:16 D d 5:1 74:1 damage 15:13 21:17 23:3,7,7,10 21 23:14 24:3,5,19 27:2,24 28:10 29:25 30:1,2,2,11 :8 30:11,12 31:13 32:22 35:4,4 45:4 :23 48:12,15,19 50:13 51:8 70:16,20 damaged 24:9 47:12 51:20,22,25 damages 15:10 27:21 datch 59:18 61:13 61:15 62:2,22,23 66:1,15,23 67:1,9 67:14 datchs 60:3,24 61:9 63:3 67:4,15 date 13:3 27:22 dates 56:14,18,20 day 35:22 55:2

33:1,9 37:7,14



	<del> </del>		 I	<u></u> _
60:14 71:9,13	56:12 57:13	60:7,23 67:3	21:1,14 22:10,24	east 1:21 73:20
73:21	developed 32:16	discharged 67:11	24:24 29:13 30:15	eastern 1:2 3:7
days 51:5 56:25	developing 56:5	disclaimer 10:2	30:25 31:4 32:10	eating 55:2
57:3	diabetes 68:2	discovery 22:5	32:13 33:13 34:12	edge 47:10
dealing 32:14 40:24	diagnose 38:25	discussion 35:9	35:19,20,22 36:11	editor 19:5
debatable 34:19,22	dialysis 7:15 8:15	disease 10:10 13:18	38:14 39:5,23,24	effect 15:7 22:12
debate 71:11	8:18 25:3,3,9,9	13:21,25 15:1,5	40:1 41:2 42:19	30:21 47:2 66:20
defendants 1:8	42:16,19,22 43:7	15:14,16,23 22:13	43:20 44:8,14	70:16
defenses 69:3	49:1,4 52:4,5	22:14 25:4 26:5	46:7,13 47:24	effected 45:21
deferred 60:13	58:13,15 59:3	26:18,23 30:4,15	49:5 50:5 51:17	effects 17:25 20:20
definitely 48:21	diameter 49:13	30:18 31:16 32:7	52:14 53:14 56:7	25:23 26:21 45:1
57:16	dice 53:3	32:8,16 36:8	56:10 57:15 59:8	<b>eight</b> 49:9
definition 16:10	didnt 16:6 18:4	39:17 40:23,25,25	61:16 66:21 67:9	eliminate 27:23
degree 33:13 39:4	32:6,7 36:7 56:18	41:2,8,18,19 42:5	67:12	eliminated 32:10
40:7,18 52:9,13	56:20 57:23 64:16	42:11,15,24 43:17	door 36:9	embarrassed 10:23
52:19	die 28:20 59:2	44:12,18,23 51:19	dose 45:3,9 46:5	emergency 30:9
dehydration 51:24	diesel 17:25 19:8,18	55:11,17,20,22,25	double 57:7	39:20 49:23 51:12
52:11	19:20 20:20,21,25	56:9 58:9 59:11	doubt 42:1 50:1	60:14
delay 65:7 71:12	21:9,12,16 22:9	61:10,11 62:25	downward 52:16	emory 6:24
department 30:9	22:13,23 23:7,19	63:8 66:3,9,12,20	dr 1:9 2:1 3:3 7:17	<b>employee</b> 73:15,16
depend 56:8	24:2 25:14,22	71:5	7:18 8:11 9:4,10	encounter 46:11
dependent 53:5	26:12,20,23 27:14	display 9:23 10:15	10:18 60:11,24	ends 46:15
depending 68:3	27:16,21 28:4	distal 14:24	61:9,13,15,24	engage 69:14
depletion 52:3	29:4,6,10,16,20	distracted 6:4	62:2,22 63:3 66:1	engineering 8:5
depose 69:4	33:18 44:12,14,18	distress 50:21	66:15,23 67:1,4,9	english 19:7
deposition 1:9 2:1	46:17,19,25 47:9	51:11	67:14,15 73:5	entitled 19:11
2:13,21,23 3:3,11	70:11,18	district 1:1,2 3:6,7	74:2	environment 34:14
5:18,19,21 22:5	dietary 58:19	doctor 5:14 8:8,15	drew 71:8,12	environmental
40:11 58:12 59:16	difference 36:16	21:23 53:20 54:16	drivers 21:10	5:17
59:21 61:17 63:18	different 15:23	59:17,18 60:5,22	drop 54:21	episode 26:4
67:5,13 69:3 72:2	21:4 37:10,20	61:25 62:1,23	drowned 19:9	eric 1:9 2:1 5:8 73:5
73:7,11	40:15 45:23,24	63:5,6 65:23,25	drug 35:3	74:2
depositions 8:11	51:18	66:15,19 69:23	due 13:17 14:13	especially 40:12
dermal 23:19	differentiate 16:5	doctors 19:19 25:12	16:3 17:8,9,21,22	esq 1:14,18,22
described 24:17	differentiation 17:5	63:9 68:25	18:24 19:11 39:21	essentially 24:10,11
56:24 57:19	difficult 45:22 54:8	document 60:4	40:4 52:11 59:10	40:22
describing 55:8	direct 5:13 74:2	documents 59:13	duly 2:3 5:3 73:6	estimate 44:5
description 9:9	directly 39:15	63:18	dvd 3:2	et 1:4,7
<b>despite</b> 58:9,25	73:17	dodge 17:13	E	events 41:5,6
detail 17:2	disagree 14:3 56:23	doesnt 10:11 41:3	1	everybody 24:10
determine 14:12	57:2 59:4 61:12	43:25 58:18	e 5:1 51:15 52:1,12	28:3
17:20 25:24 26:20	61:19 62:2 63:8	doing 50:18 58:25	74:1,5 earlier 50:15	everyday 19:21,22
26:25 27:20 29:3	66:4,8	59:1 69:9		57:20
determining 66:14	disagreed 59:9	dont 9:19 12:22	early 20:15 39:21 68:5	evidence 21:16 23:1
develop 36:7 41:8	disagreement 62:12	13:10 14:3,3,8	easier 31:17	34:3 47:6 62:5
41:13 48:22 54:23	discharge 59:16	16:19 18:9 20:1	casici 31.1/	evolved 37:14



rage 4
exact 53:25 56:18
70:15
exactly 16:13 38:14
62:8 67:14
examination 5:13
53:19 67:21
examined 65:24
example 68:16
excellent 61:18
62:11 63:4
excited 31:8
executive 6:3
exhibit 74:6
expect 26:10 41:8,9
expected 70:14,19
experience 55:16
expert 40:12 69:1
expertise 17:14
experts 15:20 46:9
expires 73:24
explain 48:17 67:22
explosive 41:8
<b>exposed</b> 19:22,23 19:24 25:8,22
26:22 28:4 33:11
37:6 43:18 45:18
46:19 51:20 68:14
exposure 10:5,9
18:8 23:2,19,20
23:23 24:3 25:4
25:14 26:11,25
27:14,23 29:3,4
29:16,20 30:20
34:13 37:15 41:25
44:12,18 45:4,9
46:17,25 47:9,12
55:17 56:1,15,25
57:4
extensive 11:5,8,11
11:17 12:11 38:16
<b>extent</b> 14:18 46:12
48:15 50:4 56:8,9
extraordinary
51:11
<b>eye</b> 9:22

<b>F</b>
f 1:17
face 42:14
fact 15:3 38:15
39:10 51:13
factors 53:4
facts 21:19 22:16
34:3 49:18 59:13
59:25 63:12
failed 31:12 47:23
48:8 59:10
failure 9:8 18:24
19:11 37:9 42:8
43:19 44:13,19,24
46:3,5 48:18
49:24 50:3,4,10
50:18 51:24 53:11
54:24 55:13
fair 35:17 40:14
62:4 71:6,7,10,11
71:14,15,17
familiar 69:23
family 8:11 61:22
62:1 63:6 65:25
far 27:18 31:22
36:1 67:13
fast 31:2,3
fatigue 41:10 55:5
58:5
fault 66:14
fda 35:1
federal 40:10
feel 16:18 21:1
42:25
feeling 49:2
feels 42:14
fellowship 7:3,5
felt 16:15 61:9 62:8
fewer 31:22
<b>fifth</b> 50:24 51:3
figure 13:25 46:14
fill 20:4
filter 11:13 13:2
31:20
<b>filters</b> 11:12 15:6

30:21
final 37:1,4
financially 73:17
<b>find</b> 9:20 54:3
<b>finding</b> 10:15,21
<b>findings</b> 37:18,23
38:6 39:7,18
65:23 66:1,4
fine 10:5 37:5 42:25
finish 43:3 58:12
65:9
finishes 65:13
first 5:2 8:25 16:1
19:7 36:13 49:23
73:5
, = ,=
fits 38:9 39:16
five 9:20,22 21:8
29:17,18 34:21
36:14,15 58:10
fleet 45:25
flu 16:16 24:17
41:23 42:22 52:22
52:24 53:9,12,12
fluid 52:2
focal 9:23 10:16,20
focus 26:19
follow 27:9 43:11
following 8:24
42:10 56:1 69:21
<b>follows</b> 5:4 45:21
followups 67:19
<b>food</b> 50:20 51:13
foregoing 73:10
forensic 8:6
forget 70:15
form 2:17 20:23
21:18 22:15,20
34:2 48:13 53:24
59:12 63:11
formalities 2:12
formula 45:17
46:24
forward 52:1
found 9:10 10:17
four 1:16 9:21
21:14 22:10,18

56:25
france 22:19
freshwater 69:11
friend 65:6
front 60:9 63:22
fsgs 32:10,12,13,13
32:14,17,18,20
fuel 17:25 19:8,18
19:20 20:20,21,25
21:10,12,17 22:9
22:13,23 24:2
25:14 26:20,23
28:4 33:18 44:12
44:14,18 46:17
70:11
full 5:6
fully 27:1
function 24:12,22
25:7,10 26:9,14
28:2,3,5,8,9,14,21
28:24 33:5 35:15
35:23 45:21 47:19
48:23,24 49:4
51:22 52:4 58:16
functional 36:3
functioning 12:16
further 2:16,19,22
67:17 73:10,14
future 24:6
<u>G</u>
gas 19:21 20:4 21:9
22:25 33:20
gasoline 44:18
generally 42:19
67:22 68:13
<b>getting</b> 47:8 52:17
give 9:18 19:17
21:23 43:20 50:6
62:24 66:22
given 20:21 21:12
22:9 52:2 73:12
gives 36:13
giving 62:10
glomerular 15:14
30:16 32:6

	glomeruli 11:6,12
	11:18,23 12:9,14
	12:17,23 13:2
	14:18,19 30:2,11
	31:14,15,18 32:3
3	35:24 46:21 47:17
	48:4,20
	glomerulus 14:22
5	go 11:2 17:17 22:21
)	41:3 42:16 53:17
	54:4,11,16,23
	57:22 58:11 65:20
,	goes 49:16 52:1
	going 5:17 14:9
	21:25 33:4 37:21
	37:25 40:5,8
	51:25 58:11 59:2
	60:22 62:24 63:10
	68:12,23 70:5
1	71:16 72:1
	good 5:14 22:23
9	25:10 39:5 56:7
	61:18 65:6
	gotten 13:24
	grass 19:25
	greater 25:13
,	greenwich 2:6 3:12
	ground 12:6,8
	group 8:6 19:16
_	guess 44:2,4 53:15
	57:23
9	guidelines 42:13
	guy 41:14,16
	guys 65:8
	**
	<u>H</u>
	h 71.2 5

# h 74:2,5 hadnt 66:23 hair 19:8 hand 73:20 hands 20:9 22:25 happen 43:6 happened 33:7 41:25 53:2 happening 41:4 happens 19:18 28:6



51:9	home 58:13	inactive 13:8	56:10 57:1 59:11	johnson 3:15
happy 6:5 62:16	hope 35:19	incidental 10:21	66:4 70:15	<b>joy</b> 1:3
hard 41:15 53:2	hospital 7:14,15	include 51:24	insensitive 28:2,8	juiced 31:8
harder 15:7	8:17 30:6,8 36:10	includes 34:14 46:1	28:23	
harrington 1:22	57:5	47:17	<b>inside</b> 11:23	K
3:25,25 53:16,19	hotel 2:5 3:12 6:3	including 2:13	insomnia 41:11	keep 48:25 49:2
54:2,6,13,15	hours 45:19,20	18:15	55:4 58:5	50:19,20 63:24,25
59:15,23 60:6,12	hundreds 21:20	inconceivable	instance 16:15	69:6,16
61:2,5 63:14,24	hyatt 2:5 3:12	40:22	46:18	keeping 49:3 68:10
64:4,8,14,18 65:2	hydrocarbon 18:8	incorrectly 24:24	instruct 64:23	kennedy 1:17
65:5,11,15,16,19	44:18	incredibly 58:9	instructed 64:22	kid 20:2
65:22 68:23 69:15	hydrocarbons	independent 12:1	instructing 64:9	kidney 10:10 11:12
71:23	29:11 42:1 44:21	independently 9:7	instruction 64:19	11:22 13:1,13,25
hartford 73:3,20	hypocritical 17:1	indicate 23:14	insufficiency 10:8	14:15,20 15:5,18
havent 61:23 66:19	hypothetical 14:11	<b>indicated</b> 5:24 9:13	insult 15:11,12 29:3	17:25 21:17 22:13
66:22	hypothetically 28:7	23:6 34:1	intact 14:25	22:14 23:3 24:8
head 12:3 25:18		indicates 21:15	interest 55:3	24:14,16,19,21,22
headaches 55:6	I	22:11	interested 73:17	24:25 25:4,7,23
health 26:24	<b>i95</b> 21:6	indication 36:13	internal 6:19 7:2	26:4,5,9,15,18,21
healthy 26:16,17	ibuprofen 16:18	indirectly 73:18	interpreted 10:19	26:23 27:17 28:1
28:17 35:8 48:25	35:2	individual 23:18	interrupt 30:23,23	28:2,5,8,9,10,13
50:19	id 62:7	25:12,22 48:17	31:5	28:14,15,16,17,18
hear 57:23 64:16	idea 44:8	individuals 23:17	interstitial 15:16	28:20,21,23 29:17
66:7	identification 74:6	infectious 68:15	31:16 32:7 61:10	30:10,13,18 31:12
heard 43:11 64:23	iii 1:14	inferences 49:14	interstitium 11:9	31:12 35:4,11,15
held 2:2,5	illnesses 35:7	information 10:7	12:6,9,12 30:2,12	35:23 36:3,6,8,14
help 60:20	<b>im</b> 11:16 28:6 33:15	16:14 17:7,15,19	intoxication 44:20	37:1,5 39:17,22
helps 49:2	46:21 47:8 57:21	22:12 37:16 45:8	44:22	40:24,25 41:7,17
hemodialysis 58:13	58:3 71:16	62:14 66:7	ischemia 16:24	41:19 42:5,8,11
hereinbefore 73:13	<b>imaged</b> 49:10	ingested 23:19	17:9	42:15,24 43:17
hereunto 73:19	imagination 41:18	inhalation 23:20	ischemic 17:12,21	44:12,17,19,23
hes 13:24 14:4	imagine 12:7 19:23	initially 9:23	isnt 15:14 16:4	45:1,5,20 46:2,18
21:24 40:5,6	23:6	injured 51:19	19:20 24:1 58:20	47:3 48:23,23
41:15 50:18,18,19	immediately 16:3	injures 16:10	62:21	49:1,4,11,12,15
50:19,20 52:2	immunosuppress	injuries 41:22	issue 34:22 49:5	51:19,22,23 52:4
58:17 62:11 65:11	68:9,20	injury 9:9 10:7,17	itch 41:11	52:5 53:22 54:18
69:2	immunosuppress	10:25 15:14,19,23	itching 55:4	54:19,20,23,24
hey 27:13	68:3	16:2,5,20,21	iv 42:15	55:9,10,11,13,16
high 50:12 58:20	immunosuppress	17:21 23:12 24:8	ive 8:24 44:20	55:17,20,21,22,25
highlighted 9:24	68:6	24:16,22,25 25:2		56:9 57:1 58:9,16
highlighter 9:18	impatient 30:24	25:24 26:4,13	J	59:11 61:10 62:25
hines 7:17	important 49:2,7	27:17 29:3 32:9	jason 1:3	63:7,8 66:2,3,4,9
history 10:12 56:3	66:13	39:17,18 41:20	jenkins 8:11	66:12,20 67:23
hit 24:22	impression 36:21	45:10 52:5 53:22	jls 1:6 3:8	70:15,16,18,20
hold 38:1,1,2,4	inability 58:6	54:18,19,20,23	job 58:23	71:5
60:20	inaccurate 64:2	55:9,10,17,21	john 1:17	kidneys 10:9 14:4



<del></del>				
14:16 20:21 23:20	55:20	look 9:19 11:22,22	machines 33:17	62:11,12 63:2,3
24:4 30:1 31:13	lawful 2:2	13:1,9 18:13 26:9	magna 3:16,17	64:3
32:23 33:5 45:10	lawn 33:23	47:6 48:4 49:8	main 55:6 68:5	medication 67:23
47:16,18,23 48:1	lead 49:13	56:17,19 62:5,7	making 49:14 52:3	68:9,20 69:14
48:8,11,18 49:8	leads 44:23	62:13 66:6 67:6	man 19:7	medications 35:7
50:13,14 51:5,7	learn 38:11	67:12	management 58:17	68:2,2,7,7
51:15,25 59:10	learning 58:13	looked 18:10 25:21	58:19	medicine 6:19 7:2
70:14	leaving 21:20	25:23 36:14 67:9	manual 58:8	11:2 31:9 70:2
kind 6:2 11:17 12:1	lee 23:18	looking 8:1 10:3,6	manufacturers	mention 61:24
12:6 15:11,13	left 28:14 30:17	10:12,13 14:16	35:1	mentioned 55:23
36:22 51:7 68:18	36:4	16:4 18:16 31:11	march 29:16	55:25
knocked 30:21	legal 3:16,17 52:13	36:20 39:13 45:7	marino 1:3,4 3:4	metabolically
know 13:16 14:8	lentz 1:11	49:10,11 53:7	8:11 13:13,25	15:17
17:3 18:14 19:19	letter 19:5	56:21	29:15 37:25 47:9	metal 41:11
27:3,12,15 29:13	level 50:6,9,12	looks 7:17 17:12	49:23 58:17 59:6	metallic 55:3
29:14,14 30:15	levels 51:12 58:16	32:15	61:20 62:22 65:24	miller 1:24 2:3 3:17
33:13,16 34:13	lewis 1:20	lorie 68:2	67:10,14	31:1 65:6,10 73:4
35:19,20,23 36:2	license 1:25	lose 14:20,21 15:2	marinos 8:7,15	73:23
36:2,5 38:14 44:7	licensed 1:24	33:4	13:1 29:25 31:12	million 14:19
47:5 48:7,11 49:9	life 33:2,5 40:24	loses 28:5	35:11 39:20 47:16	mind 12:20 16:2
51:21 57:3 61:20	42:10		48:1 57:4 62:11	25:17 42:2 57:6
	· ·	losing 59:1 65:11 loss 9:24 10:16,20	62:25 63:6 65:25	71:10
62:8 65:14 66:21	lifetime 34:22	· ·	66:2 67:2	minutes 9:20 65:17
knowing 10:4	limited 28:14	31:14,15,18,19		
knowledge 29:24	link 21:16 29:20	46:20 47:1,2,17	market 1:12	misquote 13:10
44:21 46:13,14	list 8:25 53:20	55:3	materials 8:5	misrepresenting
knows 13:21	70:13	lost 35:24 58:20	mathematical	59:24
L	listed 8:5	lot 16:17 27:8 43:4	45:17	missed 66:16
12:8 74:3	listen 27:13	49:3 66:9,11	matter 3:4 33:7	missing 21:2
lab 28:15,19 35:14	listing 42:18	loud 61:7	35:6 58:2	misstates 22:16
50:5	literature 17:24	lukes 8:17 30:5,8	mean 5:16 14:2,18	34:3 59:13 63:11
label 34:24 35:3	18:9 20:13,20	49:24 50:17 59:7	16:9 18:20 24:5	misstating 21:21
lamb 1:18 3:23,23	21:2,16,21,23	lynam 1:11,14 3:21	30:4 38:21 40:18	mistaking 21:19
,	22:2,11,23 25:11	3:21 19:1 20:23	48:7 51:17 67:1	mix 7:15 52:14
5:13,15 19:3 21:3	29:21 45:8,25	21:18 22:15,20	71:15	models 51:18
22:3,6,17 23:4				
21.6724.50	46:23	31:3 34:2,7 38:19	meaning 35:1	month 56:16 57:16
31:6,7 34:5,8	little 18:14 30:24	40:5,13 43:3,25	means 38:8 50:9	months 25:24 26:24
38:20 40:10,15,17	little 18:14 30:24 31:1,9 49:17	40:5,13 43:3,25 48:13 51:1 53:23	means 38:8 50:9 measures 28:1,7	months 25:24 26:24 27:22 29:2,18
38:20 40:10,15,17 43:9 44:3,6 48:16	little 18:14 30:24 31:1,9 49:17 61:14	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18	means 38:8 50:9 measures 28:1,7 42:18 45:2	months 25:24 26:24 27:22 29:2,18 36:22 58:16
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4 65:16,20 68:21	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23 location 6:8	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21 65:5,13 67:18,21	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22 24:25 30:14 32:8	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1 mouth 41:11 55:3
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4 65:16,20 68:21 70:3,25 71:7,18	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23 location 6:8 long 6:20 9:2 43:12	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21 65:5,13 67:18,21 68:22 69:2,8,22	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22 24:25 30:14 32:8 medical 6:24 8:13	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1 mouth 41:11 55:3 58:6
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4 65:16,20 68:21 70:3,25 71:7,18 71:20,21	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23 location 6:8 long 6:20 9:2 43:12 longstanding 29:4	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21 65:5,13 67:18,21	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22 24:25 30:14 32:8 medical 6:24 8:13 13:24 22:2 32:15	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1 mouth 41:11 55:3 58:6 mower 20:5
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4 65:16,20 68:21 70:3,25 71:7,18 71:20,21 lancet 19:6	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23 location 6:8 long 6:20 9:2 43:12 longstanding 29:4 61:10	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21 65:5,13 67:18,21 68:22 69:2,8,22 71:2,14	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22 24:25 30:14 32:8 medical 6:24 8:13 13:24 22:2 32:15 40:1,7,19 52:9,13	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1 mouth 41:11 55:3 58:6 mower 20:5 msds 34:5 69:23
38:20 40:10,15,17 43:9 44:3,6 48:16 51:2 53:14,17 60:19 64:25 65:4 65:16,20 68:21 70:3,25 71:7,18 71:20,21	little 18:14 30:24 31:1,9 49:17 61:14 llc 1:7,11 3:5 load 41:23 location 6:8 long 6:20 9:2 43:12 longstanding 29:4	40:5,13 43:3,25 48:13 51:1 53:23 54:4,10 59:12,18 60:1,15 63:10,16 64:1,6,11,16,21 65:5,13 67:18,21 68:22 69:2,8,22	means 38:8 50:9 measures 28:1,7 42:18 45:2 meat 55:4 mechanism 15:22 24:25 30:14 32:8 medical 6:24 8:13 13:24 22:2 32:15	months 25:24 26:24 27:22 29:2,18 36:22 58:16 morning 5:14,25 41:10 55:1 mouth 41:11 55:3 58:6 mower 20:5



	17:9,22 21:1
N N	22:24 23:23 24
n 2:8 5:1 74:1	25:8 26:12 27:
name 5:6,14 35:2	30:20 34:18 37
59:17	42:7 43:18 45:
names 18:5	45:10,13,14,18
nature 24:7 28:13	46:1 47:9 51:2
68:18 69:13	52:7,15,20,24
nausea 41:10 54:25	nephrotoxins 18
55:1,1 58:6	19:11 33:12 3 <sup>4</sup>
near 24:12	34:15 42:1 69:
necessarily 14:17	never 39:11 53:
18:10 27:9	
necessary 10:2	new 32:8
62:17,23 63:1,2	nine 65:17
necrosis 31:25	nod 12:3
38:12,17 39:3,7	nonsteroidal 24
need 25:9,9 28:1	normal 15:9 24:
40:14 62:7,7 65:4	24:21 25:7 26:
65:17 67:23,25	26:14,24 28:9,
68:2,3,4,6,8,10,13	28:24 31:22 57
68:14	normally 56:24
needed 67:14	<b>notary</b> 2:4,20 5:
needs 52:4	73:4,23,24
neil 8:11	<b>noted</b> 37:23 38:
neither 55:12	39:7
nephrologist 6:15	<b>notice</b> 2:13 54:2
10:3 17:3 35:18	73:8
36:24 37:19 38:5	notices 41:15
43:13 46:10 59:5	nuances 61:15
60:10 61:21 62:18	66:12
65:24 66:5,16	number 3:2,8 12
nephrologists 15:4	41:24 43:21 44
24:1 25:21 62:3	45:11 47:2 48:
nephrology 5:9	53:1 57:6
6:19,21 7:4 49:5	numbers 40:9
nephrons 31:18,19	41:12 45:24
31:20,22 32:2	
35:24 45:24 47:12	<b>o</b>
47:17	o 2:8 5:1
nephrotoxic 15:12	object 21:18 53:
15:19 17:12 24:8	59:12 63:11 68
25:2 31:24 32:9	71:7,9,16
41:5,6 53:2	objection 20:23
nephrotoxin 10:6	22:15,20 34:2
16:3,7,9,10,24	38:19 48:13 64
1 10,0,1,0,10,47	
	64:15,19 68:2

	_
4:16 :16 7:7 :2,4	ol ol
8 20 8:24 4:10 :17	00 00 00
4:17	of
:12	of
:10	ol
,21	oi
7:9	ol
:5	ol
:17	ol
:21	oı
2:20	01
4:9	0]
:4,4	0]
:23	0]
8:24	0]
;	0]
54:5	01
:1	01

60.15 70.2 25
69:15 70:3,25
<b>objections</b> 2:17 40:12
obviously 19:17
28:5 33:20 41:21
50:19 51:21 52:21
occasion 33:21 70:1
occasional 33:14
occurred 52:12
69:21
office 7:14,15 58:12
73:20
officer 2:14
offices 6:8
oh 14:7 63:14
oil 44:19
okay 6:5 7:7 9:21
11:4 14:8 15:25
21:4 23:25 34:23
43:2 53:17 55:15
61:4
old 19:1
older 18:19 19:2
42:23
once 25:9
ones 15:3,6 18:15
18:17,18 29:1
31:23 55:7
ongoing 14:4 27:24 48:15
opined 29:15
opinion 9:4,7,11
10:22 29:22 30:19
30:22 37:21 38:1
38:1,3,4 39:19
47:14 51:21 60:24
61:21 62:1,3,8,24
63:5,6,9 66:10,16
66:22,24
opinions 8:20 9:5
62:10
opposed 16:24 40:4
55:1
option 69:3
organ 70:18
original 8:10 9:11
- I

60:10
outpatient 8:14
output 54:21
outrageous 42:13
outside 68:12
overdose 16:19
overtime 28:19
50:14
overworking 15:3
P
<b>p</b> 2:8 3:14
page 8:21 9:21
60:23 74:6
pages 7:24
paper 19:6,10,10
papers 18:11 25:15
paragraph 8:21 9:2
parcel 52:18
pardon 54:6
pare 9:3
part 9:11 10:14
15:18 30:9 31:12
52:17,17 59:21
68:1
particular 46:17 68:11
particularly 28:23
41:1 42:23,23
51:17
parties 2:11 3:18
73:16
partner 60:13
partners 7:17
parts 31:11
pass 21:10
pat 53:25 63:20
patch 49:17
pathologist 10:8
16:12,23 17:10,15
17:20 36:18 37:11
39:10,15 62:15,19
67:6
pathologists 15:20
25:21 37:20 38:2
38:23 39:6
30.23 37.0

raye
nathology 0.0 0.10
pathology 8:8,9,10
9:7 10:1 16:4 17:4
17:8,19 29:23,24
38:6,18 39:8
61:15 66:10,24
67:2,10
patient 16:15 39:13
42:5 51:10 59:6
67:23 68:8,19
1
patients 7:8,10 39:1
42:10 44:10,16
patrick 1:18 3:23
5:15
pencil 49:13
penn 1:16
pennsylvania 1:2
1:13,17,21 3:7
people 19:16,18,20
21:21 24:11,18,21
25:1,4 26:22
27:14 40:25 45:23
46:2,4,9 48:22
53:6 57:22 58:3,8
58:22
percent 12:18,20
12:23 13:12,14,17
14:20,21,21,22
24:11 26:13 28:5
40:20 45:19,20
48:22
percentage 12:14
13:7 28:15 37:17
40:3,19 45:4,11
46:20 47:1,11,21
47:22
perfectly 42:14,25
period 24:4
permanent 27:1
46:4
person 25:20 26:16
26:17,18 31:22
•
35:8 42:23 46:6
58:11 71:4
philadelphia 1:13
1:17 18:21
phone 65:8



	<del></del>		1	<del></del>
phosphate 45:25	preparation 42:19	progressively 41:10	68:24 71:22	56:22 61:23 62:5
physician 61:22	prepare 46:2	56:5	quick 67:18	62:7 64:3
70:21	prepared 8:10	proof 2:19	quickly 55:24	recover 23:24
piece 49:11,12,13	63:17	propels 43:18		24:11,18,23 25:2
pills 34:21	present 3:18 36:22	protein 26:5	R	25:10
<b>pilot</b> 1:7,20 3:4 4:1	55:25 56:24	protocols 5:20	<b>r</b> 5:1,1,1 51:15 52:1	recovered 26:8
5:15 14:5 33:10	presentation 57:5,9	prove 28:9	52:12	recovers 24:10
35:12,15,22 52:22	presented 30:5,8	<b>provide</b> 18:5 37:21	range 57:17	recross 74:2
53:8	44:11,16	56:21	rapidly 57:12	redirect 74:2
pipes 68:17	pretty 6:12 9:2	provided 9:4	reach 62:6	reduced 73:9
pits 69:12	25:10 37:8 49:15	proximal 9:23	reached 8:24 9:7	refer 60:22
place 2:13 16:12	56:3	10:15 14:23 15:10	59:5 66:1	referenced 19:6
27:9 35:3 51:14	prevalence 20:21	15:11,15,16,17	reactions 70:13	referring 59:14
73:13	21:12 22:9	16:2,20 17:21	read 9:23 23:5	refineries 19:21
plaintiffs 1:4,12	prevent 15:4	<b>public</b> 2:4,20 73:4	33:17 38:4 60:25	reflected 47:22
3:22	primarily 30:16	73:23	61:6 65:3 66:22	reflects 15:13
please 4:3 5:5 6:4	<b>primary</b> 8:15 30:16	<b>pull</b> 60:4	67:4	regard 70:14
22:7 30:24 61:6,8	30:17 32:13,14,17	pumped 33:20	reading 2:23 5:21	regarding 6:14
64:7 65:3,20	print 18:4,23	purpose 70:6	ready 5:24	22:12
plenty 23:1	printed 73:9	pursuant 2:2 73:8	real 20:19 26:19	regardless 62:10
plumber 53:9 57:20	<b>prior</b> 37:6	<b>push</b> 71:4	35:14	regency 2:5 3:12
57:25 58:7 68:17	probable 61:11	<b>pushed</b> 37:24 47:10	really 10:11 14:19	regular 7:8 68:11
<b>plumbing</b> 34:1,10	probably 6:22	<b>put</b> 10:13 15:7 40:9	15:19 16:25 17:10	reidenberg 19:4,10
69:10,11,12	12:17 18:17 21:8	49:18 57:22 58:4	25:1 27:2,3,12,12	related 40:8
point 12:15 16:11	21:9 24:14,24	63:21	53:12 56:7 57:15	relation 7:21
25:8 33:5 35:25	32:12,19 33:11,14		reask 43:10 61:1	relationship 45:3,9
37:25 42:16 47:15	33:14 36:3,8 41:2	Q	64:25	relative 73:14,16
47:16,25 48:3	58:15,20 61:9	qualifications 2:20	reason 28:12 59:10	relatively 14:25
49:16 52:6 60:4	<b>probe</b> 46:12	qualified 2:3	reasonable 32:15	25:6
61:19 71:3,5	problem 13:20	quantified 48:3	40:1,7,18 52:8,18	relevance 47:13
pointed 71:8,13	60:19	quarters 13:3	56:3	49:6
poor 31:1	<b>problems</b> 63:7 66:2	question 6:5 12:21	rebound 24:4 27:1	reliable 49:21
portion 62:25	procedure 2:3	17:10,13,17,18	rebounded 23:20	relieved 55:2
portions 28:20	proceedings 69:18	21:5,5 22:4,4,7	recall 20:17 34:12	relook 25:16
post 1:15 3:13	process 15:24 32:22	25:17 27:5 31:9	67:12	rely 9:3 38:2 70:1
potasium 58:20	52:18	40:6 43:10,11	receiving 62:11	70:22
potential 69:17	processes 27:10	46:8,22 47:24	recess 69:20	relying 29:21 66:17
70:16	produces 14:24	49:22 51:10 52:23	recommendations	remaining 14:22
potentially 53:2	professional 40:24	53:25 54:11 57:24	l	15:2,6,6 30:21
pounds 58:20	42:10	60:2,16,17 61:1	record 3:2 5:7	31:19,20,22,23
powered 33:18	progress 41:1	62:4 64:1,5,7,20	29:23 69:19,21	48:23 51:22
practice 26:3 70:2	progressed 32:17	65:1,3,21 70:6	72:1 recorded 73:8	remember 18:9,11
practicing 43:12	33:1	71:1,19	l .	18:15
precautions 68:8	progressing 15:5	<b>questions</b> 8:2 15:25 21:24,25 30:25	records 8:3,13,14 8:15,24 10:13	renal 8:19 9:8,13
precipitant 52:7	progressive 51:23	37:19 40:14 67:17	52:21 53:7 56:17	10:8 15:20 18:24
precise 13:11	56:16	37.13 40.14 07.17	32.21 33.7 30.17	19:11 24:12 36:18
L	<del></del>			



27.0.20.6.40.17		12-2-20-1	4 (2:20.21	15.00 46.5.6
37:9 38:6 42:17	66:3	saying 13:2 26:1	sent 63:20,21	size 45:23 46:5,6
43:19 44:13,24	resultant 45:10	28:6,6 45:18 54:9	sentence 9:17,22	49:12
46:5 48:18 49:24	resulted 44:19	65:14 66:15	separate 32:6,7	skin 45:19,20 46:18
50:3,4,10,18	resulting 44:13	says 10:16 15:22	serial 27:5	46:25 68:11 70:20
53:11 60:8 61:11	results 35:19 46:16	35:3 46:25	series 18:6,7,19	sleep 58:21 59:1
61:15 66:10	46:20 47:1	scarring 11:5,8,11	68:24	sleeping 41:12
rendered 13:8	retrospectively	11:17 12:11 36:6	services 3:16,17	<b>slice</b> 53:3
repair 19:21	53:7	36:21	set 73:19	slowly 32:16 41:1
repeat 22:8	return 26:14	scenario 24:17	severe 25:2 47:18	41:12
rephrase 6:5 46:22	reversed 25:25	scenarios 25:7	51:24,25 58:2	small 9:19 28:2
report 7:20,21 8:1	reverses 23:15	schell 1:15 3:14	sewage 68:17 69:11	49:13
8:2,3,6,6,9,10,10	review 8:3,23 17:24	school 6:24	sewers 69:7	smaller 46:3
9:7,10,13 10:4	18:3 59:19	scientific 27:25	sheet 70:17,22	smallish 10:9
13:10 14:3 17:4,8	reviewed 8:4,5,8	46:23,24,24	sheets 34:6 69:24	smith 1:20
17:19 36:21 37:23	9:6	scientifically 70:23	70:7,10	snyder 60:11
37:24 38:5,18	right 8:25 11:6,13	scientist 26:22	shops 19:21	society 20:22 21:13
39:9,11,13 49:20	11:24 12:5,9,24	sclerosed 12:15,24	shorthand 1:24	22:10
50:24 56:19 59:19	13:8,11,20,22	28:20	shortness 55:5	soda 45:25
61:24 66:6,19,22	17:9 18:10,14	sclerosis 23:10	shouldnt 16:25	solve 60:19
66:24 67:2,10	19:4,13,22 20:11	scope 68:25 69:5	show 16:21 24:5	somebody 68:16
69:1	21:5 23:13 24:6	screening 68:11	28:17 46:16 48:7	69:14
reported 1:23 19:6	26:2,11,15 27:2,4	seal 73:20,22	63:12,19	someones 57:13
49:23	27:7,10,11,24	seawater 23:18	showed 12:11 18:7	sorry 11:16 22:8
reporter 1:24 3:16	28:17 29:5,12,25	second 8:21 9:3	35:22 37:17 51:11	29:18 31:14 45:6
4:3 54:3 65:2	32:11 34:15,20,24	11:3 15:23 26:5	shown 59:20	46:22 50:5 66:25
reports 8:4,8 10:1	35:5,12,16,21	50:6 54:12 60:21	<b>shut</b> 37:1,4 48:1	67:7 70:25
18:6 22:11 47:7	36:1 38:18,21	61:21 62:1 63:6	sick 10:5 37:7	sort 8:6 15:19,20
represent 3:20 5:15	47:19 48:5 49:24	66:16	side 49:9 70:16	24:7,15 26:7 27:4
5:16	50:7,15,25 58:12	secondary 32:13,18	significance 49:17	32:8 36:22 41:12
representing 59:24	60:21 63:15	32:20	significant 23:2	47:6 52:16 53:4
request 3:13 61:21	road 1:21 6:10 26:6	see 7:10,12 9:12	24:19 39:4 51:6	56:10
65:25	28:11	10:7 14:10 18:25	signing 2:23 5:21	sovereign 1:16 3:5
rescued 19:9	robert 1:24 2:3	19:18 25:25 27:3	signs 10:6,24	3:24 5:16,16
research 27:8	3:17 8:9 73:4,23	35:10 38:7,11	silence 65:12	speaking 40:11
reserved 2:17	roofing 58:25 59:1	45:22 49:16 58:11	similar 58:16	54:7
residency 7:1	room 6:3 39:20	62:5 69:14 70:21	simple 34:17 42:11	<b>specific</b> 25:16 31:10
residential 69:10	49:23 51:12 65:13	seeing 29:19 37:22	simplistic 15:8	62:24 66:6
residual 49:4	rudnicks 61:24	39:5	single 53:3	specifically 29:6
respective 2:11	rules 2:2 27:10	seek 57:14	sir 65:15	specifics 62:13
respond 65:14		seen 16:6 18:17	sit 36:24 52:8	specified 23:21
response 32:19	S	39:13,17 44:15,20	sitting 60:21	73:13
45:3,9 70:19	s 2:8,8 74:5	44:22 61:20,23	situation 42:9	<b>spend</b> 9:20
rest 49:14 55:1	sailor 19:8	66:19,24 67:1	six 21:9 25:24	spent 40:23 42:10
restate 6:5	saw 24:7 35:18	70:7	26:24 29:2 36:7,9	43:4
restoration 52:3	38:10 39:3 51:11	sell 21:9	45:19 57:6	<b>spill</b> 20:7
result 26:14 63:7	52:10 60:10 61:23	sensitive 15:18	sixties 13:7	spills 22:25
	l 	<u> </u>	l	I



			<del></del>	
<b>spiral</b> 52:16	38:8,12 39:16	65:10 68:9	theoretically 52:6	three 7:24 13:2
spoke 5:19	subtle 10:25 37:18	taken 2:15,21 3:11	theres 8:16 10:17	19:12 25:12 45:19
spoke 3.17 ss 73:2	38:7 39:18	25:24 36:12 48:8	17:14 20:19 21:1	51:5 58:15
st 8:17 30:5,8 49:23	subtleties 16:22	50:23,24 51:3,16	21:8,15 22:12,22	threshold 57:14
50:17 59:6	17:11 66:17	takes 16:12 27:9	23:1 24:2 27:8,13	thursday 3:9
stage 36:8 42:15,24	suffer 50:13	34:21	32:12 34:3,23	time 2:13,18 3:10
48:18 55:22 61:11	suffered 42:8 53:22	talk 31:3 36:19	36:16 38:8 42:1	6:2 14:5 23:21
stamford 5:9,10 6:7	57:18	39:10 67:5	46:1,6,7 47:16,25	24:4 25:13 28:4
21:6,9	sufficiency 2:13	talked 29:1 36:1	48:15 49:3 53:4	37:7,14 42:17
standard 28:7	suite 1:12,21 6:3	39:15 71:3	56:7 57:15 66:8	43:4 46:20 51:8
62:20	summarization	talking 22:18 26:17	66:11	53:6 54:7,12
start 8:20 16:1 30:6	64:3,12	29:6 31:1 42:18	thing 10:18 15:10	57:15 61:16,17
42:7,17 58:15	summarizing 21:22	43:5 51:7 54:25	15:21 36:22 45:24	67:2,10 69:18
started 8:18 56:4	63:22	59:22 63:24,25	51:7 68:6	73:13
starte 28:8	summary 22:1	tangential 35:9	things 6:14 27:16	timeline 56:8,11
state 2:4 3:19 5:5	59:16 60:7,23	tank 20:4	33:15 41:24,24	times 43:8
50:3 73:1	sun 68:13	tank 20.4 target 70:18	43:12 46:6 52:14	tines 43.8 tiny 49:10
states 1:1 3:6	sun 08:13 superimposed	target 70:18 taste 41:11 55:3	53:1 68:17 69:12	tiny 49:10 tip 42:25
stations 19:21 21:9	41:20 44:23	58:5	71:4	tipped 25:5 30:19
	supported 66:10	taught 10:24	think 12:21 14:3,7	32:1 52:20 53:11
stay 25:3	supported 66.16	teach 38:21	15:4 18:14,23	55:21 66:11
stenographically 73:8	suppose 31.6 sure 12:3 21:8	teens 35:18	20:24 21:14 22:10	
· ·	28:22 33:13,15	tell 5:3 6:4 16:13	22:22,24 23:1	tipping 35:25 37:25 47:15 52:6,24
sticks 57:6	35:10 43:11 47:25	30:24 36:25 57:21	27:15 30:25 31:17	71:3,5
stipulated 2:10,16	53:10 45:11 47:25		31:17 32:10,13	tissue 11:18 13:14
2:19,22		telling 67:8		titles 18:12
stop 30:1,3,13	61:7 65:7,10 survival 49:4	temple 18:7,19,20 18:20	33:10,16,25 34:5	
stopped 31:13 48:1		ten 28:5 43:24 44:7	35:8,17 36:2,2,7	today 3:9 5:18 told 16:3
48:11,18	swear 4:3		37:9,13 39:8,23	
story 10:4,14	swedesford 1:21	48:22 term 16:19	39:24 40:1,13,22 42:16 43:22 44:14	toluene 44:20,22
street 1:12 5:10	switch 41:3			70:10,17
stretch 41:18	sworn 5:3 73:6	terms 13:7 45:1,11	45:25 46:7 49:5,7	tom 3:21,25 22:3
strike 70:6	symptoms 37:6	terrible 53:12	49:21 50:6,14	53:14 54:10 59:14
struck 9:22	41:4,9,13,16	testified 5:4	51:17,18 52:14,19	59:22 60:20,22
struggle 16:25	48:22 51:23 53:21	testify 5:25 47:11	54:17 56:4,7,10	63:10,15,24 64:1
studies 18:13 20:16	54:18,20,22,24	47:14 73:6	57:8,11,15,16,18	64:7,17,25 65:4,5
21:14,20 22:18	55:5,8,13,15,19	testimony 32:21	59:8 61:14,16	65:5,11,12,16
23:5,14 24:5	55:23,23,24 56:5	33:16,17 52:21	62:9,17 66:12,23	71:14
27:15 28:16,16	56:13,16,24 57:9	59:21 60:3 69:5	67:5,9	top 9:8 25:17 55:10
29:1 46:3,7,16	57:12,19,21 58:1	73:12	thinking 16:18	tough 20:11
study 18:7 19:12,15	58:3	testing 13:23	24:13 45:22	toxic 10:9 29:3 34:1
22:19 25:19,19,20	T	thank 6:6 54:13	thinks 31:1	34:11
26:19 27:25 29:21	t 2:8,8 74:5	71:22	third 36:3	toxicologist 47:5
45:2 46:24	take 5:17 24:22	thats 15:14,16 16:6	thomas 1:14,22	toxin 55:18 56:1
stuff 5:20 36:17	26:24 27:22 28:3	16:10 19:1,2	thought 12:18 13:6	toxins 31:21 57:4
65:11		21:13 26:8 36:11	24:24 38:5 39:4	track 43:20 44:1
substantial 36:15	42:14 46:13 51:14	46:8 49:12 71:19	thousand 34:21	transcript 71:24



72.0 11 12
73:9,11,12 transient 26:21
29:5
transplant 42:17,18
67:24 68:5 transplanted 49:1
travel 1:7,20 3:4
4:1 5:15 14:5
33:10 35:12,15
52:23 <b>treat</b> 7:7
treated 59:6
treating 53:6 62:18
treatment 13:24
59:20 <b>trees</b> 12:7
trial 2:18 71:17
trick 28:18
triggered 52:15
trip 63:15 trouble 41:11,12
55:4
truck 21:10
true 16:4 19:20
73:11 trust 38:23,25
truth 5:3,3,4 73:6,6
73:7
try 53:4 54:3 56:14
67:8 trying 9:20 10:13
17:13 30:23 43:15
46:14 71:12,20
tubular 16:5 26:12 30:17 39:7,18
tubule 9:23 10:15
10:25 14:17,23,23
14:24 15:15,17,17
16:21 17:21 23:12 24:8 38:12,16
39:3
tubules 9:10 11:20
11:24 12:8 13:6
15:9,10,11 16:2 17:6 23:8,11,14
24:3,6 25:25
1

26:25 27:17,24 29:19 30:3,11
31:15,18 32:3 37:17 45:5,11,11 47:11,18 48:5,20
<b>tubulus</b> 46:21,21 47:2
turn 41:3 51:25 twice 25:10
<b>two</b> 7:17 8:21 15:25 23:21 53:16 56:15
58:15 60:23 <b>type</b> 9:19 13:17 45:16,17 68:19
69:9,14 types 67:22
typical 23:22,23,25 25:6 39:8 41:17
41:19 56:11,11,19 57:11,15 62:20 <b>typically</b> 23:7,17
32:17 55:1,19 68:4

# U u 2:8 uhhum 11:14 **unable 58:21** undergraduate 6:23 underlying 30:15 44:11,17 understand 5:21 15:21 27:7 30:22 36:11 47:24 49:7 54:8 57:23 60:2 understanding 38:6,9 understood 61:17 undiagnosed 10:10 unexpectedly 43:7 unexplained 10:8 unfortunately 18:4 56:18 unit 7:16 32:5 united 1:1 3:6

university 18:21 unreliable 49:20 unusual 24:20 upwards 7:12
uremia 52:17 54:18
55:14
uremic 37:8 52:15
55:22
urine 14:25 26:5
28:16 54:21
use 16:19 46:1
71:15
usual 62:20
usually 39:9 67:25
68:7
V
v 1:5 3:8
vague 41:6
valid 70:23
validating 9:10
, milmering 2:10

V 1.5 5.0
vague 41:6
<b>valid</b> 70:23
validating 9:10
10:18 38:10
variable 56:2 57:12
57:13
various 71:4
versus 3:4 10:9
36:25
viable 13:14 28:15
vicious 52:16
video 71:12
videographer 3:1
3:15 4:2 71:25
videotape 1:9
villari 1:11
vitae 6:15
volume 52:3
vomiting 58:6

<b>w</b> 5:1
waived 2:15,21,24
5:20
walked 36:9
want 9:18,19 11:2
13:10,11 16:19
27:2,12 30:25

	-
	ł
31:4 42:15 43:10	١
54:2 56:17 57:7	l
60:1,3,18 63:12	l
66:6 67:6,12	l
69:13,16	l
wanted 27:3,13,20	l
63:19	ı
warning 34:23 35:3	١
washed 19:8	ŀ
	l
wasnt 9:11 32:8	l
46:3 51:13 60:3	
61:16	
waste 68:17	
water 50:20 51:13	l
way 10:19,24 15:1	l
15:8 19:23 27:5	l
40:16 45:17	l
wayne 1:21	l
week 7:11,13 23:21	
	l
36:13 52:12 56:4	l
56:6,15	1
weeks 16:16 25:13	ľ
29:18 36:7,9,14	1
36:15 57:7,16	
58:10	ŀ
weight 58:21	ŀ
wellestablished	1
20:25	ŀ
wellversed 41:21	
went 6:23 69:18	l
	l
whats 24:15 37:11	l
whereof 73:19	ľ
whos 23:18 41:1	l
43:17 62:24 66:14	l
<b>68:</b> 9	ı
widely 21:13	l
wife 41:14	
winter 53:10	
withdraw 71:19	l
witness 2:24 4:3 5:2	l
5:8 19:2 20:24	ĺ
22:22 43:4 44:1,4	ļ
48:14 54:10 60:8	١
60:16 61:4 63:19	١
63:22 64:9,12,19	
C 4 00 04 CE 10	

64:22,24 65:18

69:4,6 73:13,19
74:2
women 46:4
wont 25:2
wording 70:16
words 13:23 16:6
17:7 20:13 24:2
28:18 30:10
work 8:16 19:20
28:15,19 34:10
35:14 50:5 57:19
57:22,25 58:4,7,8
58:21 68:18 69:9
worked 68:17
working 15:3,7
30:1,3,13 31:13
37:5 41:15 48:1
48:12,14,19 50:14
69:12
works 15:1 28:19
world 34:14
worn 15:7
worried 59:2
worse 52:4
worsening 56:5
wouldnt 26:2,7
29:13,14 32:17
wrap 65:17
write 8:3 56:18,20
59:4
wrong 12:19 23:6
wrote 7:21
X
x 28:4 74:1,5
Y
yale 7:6
year 22:1 43:8
years 14:2 33:10
34:13 43:14,17
44:11,17 51:9
young 41:14
youre 5:24 6:3,10

14:16 21:5,21

27:17 29:19 31:6



Page 12		<del></del>		<del></del>
32:2 37:22 42:21	3			
45:18 49:19 50:3	3 27:22 36:8 68:7			
62:22,23 63:22	<b>30</b> 5:9 6:10 33:10			
66:17	34:13 45:19 58:20			
youve 18:17	73:25			
	<b>31</b> 71:25 72:2			
Z				
zero 40:21	4			
0	4 25:13 27:22 36:8			
	51:5			
04672 3:8	40 45:20			
<b>06902</b> 5:11	i			
1	5			
130:6	5 27:22 56:25 74:2			
<b>10</b> 1:25 2:6 3:10	50 22:1			
<b>100</b> 40:20	5143:8			
<b>11</b> 71:25 72:2	<b>514cv046729</b> 1:6	i		
<b>14</b> 2:6 3:10 7:20	<b>53</b> 74:2			
50:7,9	<b>550</b> 1:21			
<b>150</b> 7:12	<b>5681900</b> 1:13			
<b>1600</b> 1:12,17	<b>5871155</b> 1:18			
<b>1800</b> 1:12,17	5th 13:13			
<b>19097</b> 1:21				
<b>19103</b> 1:13	6			
<b>19103</b> 1.13 <b>191032808</b> 1:17	627:22			
<b>1964</b> 19:12 20:14	<b>67</b> 74:3			
<b>1975</b> 21:15 22:11	7			
<b>1990</b> 6:22	<b>75</b> 12:18,20,23			
1st 50:17				
150.17	13:12,17 14:20,21			
2	8			
<b>2</b> 68:7	8090 24:11			
<b>2014</b> 29:16 30:6,9	<b>80s</b> 20:16			
39:21				
<b>2015</b> 2:6 3:9 7:20	9			
73:21	90 26:13			
2019 73:25	90s 20:17			
<b>215</b> 1:13,18				
<b>23</b> 43:14				
<b>25</b> 13:14 14:21,22		,		
43:14,15,16,17				
44:11,17				·
<b>27</b> 2:6 3:9				
<b>270</b> 1:21				
, <b>-</b>				ļ
	1		<u> </u>	<u> </u>

